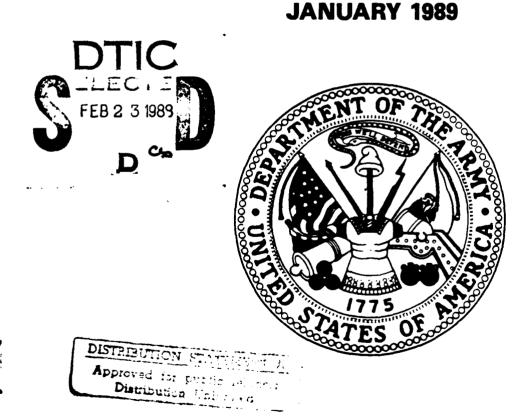


# DEPARTMENT OF THE ARMY

JUSTIFICATION OF ESTIMATES FOR FY 1990/FY 1991 BIENNIAL BUDGET

PROCUREMENT APPROPRIATIONS-CONSTRUCTION PROGRAM
SUBMITTED TO CONGRESS



**DD FORMS 1391** 

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# TABLE OF CONTENTS ARMY PRODUCTION BASE SUPPORT - FY 1990

DESCRIPTION			PAGE	
1. TABLE OF CONT	ENTS		:	
2. STATE LIST;			iii	
3. INSTALLATION	LIST	• • • • • • • • • • • • • • • • • • • •	7	
4. INSIDE THE UN	NITED STATES T	• • • • • • • • • • • • • • • • • • • •	1	
Alabama,		• • • • • • • • • • • • • • • • • • • •	1	
Indiana,		••••	10	
Iowa,		• • • • • • • • • • • • • • • • • • • •	7	
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Texas			∔8	
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# DEPARTMENT OF THE ARM FISCAL (EAR 1990 MILITARY ENGINEETION (1985) (COLLARS ARE IN THOUSAUS) (NOTICE THE CONTEST CONTEST

	<u>.</u>					
21712	DISTRIBUTION CONTUNO					
	=		WITHORIES CON	APPROPRIATES	N PERCENT	
	NORTH PROJECT TITLE		MOUTET.	<b>ಿ</b> ಖ್ಯರ್ಚ	T DESIGN	PAGE
			<del></del>			
Alabana	Redstone Arnenal (AMC)					:
	28567 Pilat Production Complex -		6,100	6,100	:OA	:
			•			
	•	-				
	SUPPOTAL RESISTORS ATMENTAL	\$	5,100	5,100		
	. * TOTAL PRE FOR ALabama	\$	5,100	5,100		
Indiana	Lodiana Army Ammunition Plant (AMC)					1c
	22920 Lightning Frotection		1.200	1,200	NA.	.0
	27798 Harden Shipnouse Buildings		1.950	1.950	NA.	:
	28382 Bulk Propellent Vertification Facility		2.750	2,750	VA.	5
	SUBTOTAL Indiana Army Ammunition Plant	\$	5.900	5.900		
	* TOTAL PBS FOR Indiana	2	5,900	5.900	•	
			3,300	,.900		
(cea	Iowa Acey Amenation Plant (AMC)					7
	16712 Construct Truck Docks		610	<b>610</b>	NA	7
	31275 Steem Lines		630	630	NA	9
	31276 Rehabilitate Rest Rooms		220	220	NA.	::
	31277 Construct Truck Dock		240	240	NA.	12
	SUBTOTAL lows Army Ammunition Plant	s	1,700	1,700		
	* TOTAL PBS FOR LOWE	s	1,700	1.700		
Kansas	Sunflower Army Ammunition Plant (AMC)	•				
	20062 Enclosure for December in Building		370	370	NA	15 15
	SUSTOTAL Sunflower Army Ammanition Plant		370	370		
	* TOTAL PBS FOR Kansas	\$	370	370	•	
COULSTANA	LOUISIANA ADDY NORMALIZON PLANT (AMC)					17
	6312 Security - Replace Guard Gates		1.500	1,500		17
•	20050 Construct Storage Buildings		500	200	NA	20
	28060 Chamical Storage Buildings		500	500	NA	23
	28873 Storage Buildings	_	530	530	NA.	26
	SUBTOTAL LOuisiana Assay Assumition Plant	5	2.730	2.730		
	* TOTAL PSS FOR Louisiana	\$	2.730	2.730		
				PAGE N	O. 111	
	. •					

#### DEPARTMENT OF THE ARRY FISCAL YEAR 1990 RELETTARY CONSTRUCTION (PRS) (COLLIAS ARE IN THOUSANDS)

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आरह		DETALLATION (COMPAND)		. •			
	ನಯಪ್	· ·	ز	WEDSTERNING OF	MPROPRIATION	PERCOR.	
	YUNGER	PROJECT TITLE		<b>MODEST</b>		DESTON	2162
Miseoura		LAKE CLEY ARMY AMMADITION PLANT (AMC)					29
	26225	Amplace Storage Building .	•	590	590	٠a.	19
	27410	Alternate Electric Power for Haste		240	240	VA.	31
	27747	Pire Detection and Deluge System		1,500	1,500		34
		SUSTOINL Lake City Amy Ammanition Plant	,	2.330	2,330		
	•	* TOTAL PES FOR Hissouri	s	2.330	2,330		
Tennessee		Holston Apply Assumition Plant (AMC)					
	21521	Electrical Safety Connections		1.850	1.850	va.	37 37
		Construct Pirepress					-
		Gas Pipe Line		590	590	VA.	40
	2.3.3		-			. NA	12
		SUBTOTAL Holston Army Ammunition Plant	\$ .	2,800	2,800		
		Hilas Army Ammunition Plant (ANC)					44
		Earth Covered Iglos - Line B		390	390	NA	44
	20096	Easth Covered Igloo - Line A		<b></b>	390	NA	46
		SOSTOTAL Milan Army Administron Plant	\$	780	780		
		* TOTAL PBS FOR Tennessee	s	2.580	3,580		
TOTAL		Longhorn Army Ammunition Plant (AMC)					48
		Fire Alarm Reporting System		900	900	NA	
		Security Fencing and Signs	•	230	230	NA.	40 51
•		SONTOTAL Longhorm Army American Plant		1.130	1.130		
		• TOTAL PRE FOR Turas	\$	1.130	1.130		
Virginia		Redford Assy Assumition Flast (APC)			. •		53
		Replace Five Barricades		1,350	1,350	NA	
		Replace Hazardous Haste Surface		2,300	2,300	 	53 55
		Constituet Sludge Drying Bed		290			
			_		280	NA.	58
•		SENTIAL Redford Army American Plant		1.930	3,930		
	•	• TOTAL PRS FOR VILTARIA	1	3.930	3.930		
TOTAL DEEDE		STREET FOR FINE					
			*	27,770	27,770		

PAGE NO. 17

### CENTRAL DESTRUCTION PRINT PT 1990

### DESTALLATION LIST

DISTRICATION	**************************************	= *GE ——
Holston Army Ammunition Plant	MC	37
:		
Indiana Appy Ammunition Plant	AMC	10
love Army Ammunition Plant	44C	7
<u>.</u>		
Lake City Army Ammunition Plant	AMC	18
Longnorn Acmy Ammunition Plant	AMC	48
Couldiana Army Ammunition Plant	AHC .	17
. <u>*</u>	•	
Milan Apply Ammunition Plant	AMC	44
•		•
Radford Army Ammunicion Plant	AMC.	53
Redstone Arsenal	AMC	1
<u>s</u>	•	
Sunflower Activy Ammanataon Plant	MC	15

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. Johponent			2.3475	
FY 1990 MILITARY CONSTRU	CTION PR	גדגנ דספנס		
#EWA-532				TAN: 3.9
: INSTALLATION AND LOCATION .4.	PROJECT II	712		
1				
Redatone Agsenal, Alagama 2	1101 210	duction Ca	приек	
PROGRAM SLEMENT SUBMITEGORY CODE 1 PROJECT	SEMON:	3.280030	: :::::: :::::::::::::::::::::::::::::	:
		Aues	5,1	. : :
73011A 222	23567	, Approv	5,1	. 2 2
).cost zerzy	1775			
TEM .	: <b>37</b> M (	30%8777	TNIT	::55 ::35
Finary Facility		<del></del>		4,323
Main Laboratory Building	SP	22.700	150.00	(3,405
Casting and Finishing Annex	SE	· :	236.00	,
Aging Storage Annex	SZ		55.00	(28)
Ancilliary Storage Facility	SZ	-,	125.00	(13)
Andilliary Storage radillary	اعد	1,300	123.30	( = 3 (
Supporting Facilities			<u>i</u>	429
Elactric Service	LS	_ i	_ 1	(52
	LS	_	_ i	(3)
Water, Sewer & Gas	25	_	- :	( ) : ( 5 ·
Steam, Chilled Water & Heat Distribution		- :	-	•
Paving, Walks, Curbs & Gutters	LS	- !	-	(37
Site Improvement	25	-	-	(239
Subtotal		i	1	5,25
Contingency (10.00%)	}	Ì	]_	52.
otal Contract Cost		İ	1	5,77
Supervision, Inspection 5 Overhead (5.50%)		ļ	_	319
otal Request		1	) !	6,09
otal Request (Rounded)		!		5,100
Installed Equipment - Other Appropriations		1	·	; ၁

consists of a Main Building of approximately 22700 SF, a Aging Storage Annex of approximately 5200 SF, a Casting and Finishing Annex of 4000 SF and ancilliary storage space of approximately 1500 SF. The Main Building is approxiamtely 50 % pure laboratory space and 50 % laboratory support space. The laboratory space will require concrete blast walls surrounding the bays. A compressed air system and specialzed temperature humidity controls system will be required throughout the facility. A 15 ton overhead crane will be required in the Casting and Finishing Annex. Supporting facilities include fire protection, storm drainage, and parking for each building. The heat for these facilities will be provided by an existing steam plant. Air conditioning will be provided by self contained systems. Approximately 100. tons of air conditioning will be required to adequately cool the new facilities. This complex will replace existing deteriorating World War II facilities. The existing operations in these World War II facilities are in violation of AMC-R 385-100. Relocating these functions in the new complex will relieve these operations of any AMC-R 385-100 safety code violations.

11. REQUIREMENT: 33,400 SF ADEQUATE: None SUBSTANDARD: 31,765 SF

12:17-235

1.1.1

1. INSTALLATION AND LUCATION

Reistone Arsenal Alapana

+ PROJECT TITLE

S RECUEST COMBER

Pilot Production Complex

13567

<u>11. RECUIREMENT:</u> (Coptibued)

PROJECT: Replacement facilities are seeded for the Propellant Aging Storage function, Propellant Analysis and Characterization Las, and Pilot Production Manufacturing Area.

REQUIREMENT: This complex is needed in order to provide new facilities for the Propellant Aging Storage function and a portion of the 1.1 Pilot Production/Manufacturing operation Materials Lab functions that are currently operating in World War II facilities. It is not economically feasible to continue to spend Above Normal Maintenance money on these facilities especially when the functions being performed in these buildings are operating under 'grandfather' clauses subsequent to the latest AMC-R 385-100 revision. The complex will also provide new facilities for the Propellant Analysis and Characterization Lab which is operating in better facilities (built in the mid 1950's) but are also operating under "grandfather" safety clauses. These "grandfather" clauses make it impossible for the operations to expand in their existing locations which do not meet safety requirements per AMC-R 195-100. The new complex will provide modern facilities which will be more economical to maintain, provide better environmental control conditions, and allow the PBS contractor to comply with the revised safety regulations. Also, this will allow for the abandonment and subsequent demolition of the older facilities that are not economical to maintain.

CURRENT SITUATION: Current operations are in facilities that were built between 1942 and 1956. Most of these facilities are not economically feasible to repair. The older buildings were designed as artillary shell loading facilities while newer buildings were only designed for 1.3 hazard type propellants. The new 1.1 hazard type propellant has more demanding building safety requirements, greater inhabited building distances and requires physical separation from 1.3 hazard type propellants (which in turn requires more floorspace). As a result of the recent revisions to AMC-R 385-100, which requires more stringent enforcement of 1.1 requirements, the majority of the operations in their present location are not in compliance and are operating under "grandfather" clauses. These operations will be in compliance with AMC-R 385-100 when relocated to the new complex. In addition, many of the required temperature and humidity control requirements are not being met in the older facilities.

IMPACT IF NOT PROVIDED: This new complex will house support operations related to 1.1 and 1.3 propellant for Hellfire, Tow, Maverick, MK-70, MK-36, Patriot, Slat, and VSTT missile systems. All of these programs will be impacted due to the limited and inadequate support facilities. As support facilities, these labatories and test facilities have an indirect but important impact on the efficient and economical manufacture of the above mentioned programs. In addition, the PBS contractor and adjacent government facilities will continue to be exposed to quantity distances that have been waivered as a result of the revised AMC-R 385-100. Expansion of existing

1. COMPONENT			· · · · · · · · · · · · · · · · · · ·	1.0475
		FY 1930 MILITARY CONSTRUC	TTION PROJECT DAIN	
<u> </u>				7211 39
I. INSTALLATION AN	ים בסכץ	MON		
Redstone Arsas	sal, 3			
4.PROJECT TITLE			, 5. PROJECT GE	MBER
· ]				
Pilot Producti	ion Id	mplex	29	567
11 RECUERTIVE				
		DED: (Costizued)		
		impossible without addition		
		idity control will continu		
antiquated sys	stems	in the existing facilities	s. The lack of prop	er humidity
		quality of the manufacture		
		project has been coordinate		
physical secur	rity p	lan and required security	improvements are in	cluded.
/3/				
Frank Chr	risman			•
. Chief				
		ity Branch		
(205)875-	-9998			
12. SUPPLEMEN				
		Design Data:		
(1)	Statu			
1		Design Start Date		
	(b)	Percent Complete As Of 01	January 89 (BDGT YR	·····
		Percent Complete As Of 01		
	(4)	Design Complete Date	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · <del></del>
/3.	Basis		, .	
(2)		: Standard or Definitive Des	rian - Vad	
		Where Design Was Most Rece		
	(3)	where Design was Most Rece	entry used	<del></del>
(3)	Total	Cost (c) = $(a)+(b)$ or $(d)$	· +/ 4) ·	(\$000)
(3)		Production of Plans and Sp		
		All Other Design Costs		
	• •	Total Cost		
		Contract		
		In-house	•	
	(-/	24 20234,		······ ———
(4)	Const	ruction Start	•	
,				month & year
3. Eguip	oment	associated with this proje	ect which will be pro	vided from
other appropri		-		
		<del>-</del> -	Fiscal Year	
Equipme	ent	Procuring	Appropriated	Cost
Nomenclat		Appropriation	Or Requested	(\$000)
		None	<del></del>	
		•		

1. COMPONENT					1 1ATE		
•	- FY 19 <u>39</u> AILITARN	CONSTRUCT	ION FRO	JECT DAT	A.		
_ 424Y-28S						JAN 89	
D INSTALLATION AND LUCA	7128	+ 2R	OUECT TIT	LE			
'						'	
Inquana Army Ameun.	ition Plant, Indi:	ini lis	20102	Protecti	35		
5 PROGRAM ELEMENT	SCCC YRODSTAC 6	PROJECT			7 :037 531	2	
:				1464	<u>.</u> ,	230	
1	422		22930	.00200	1	200	
	3.	COST ESTIMATE	25				
	:75%		07H	2//14 7774	23.57	12.37	
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Primary Facility			1 1		ī ī		
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Supporting Facility	1 3 5		<del></del>		<del></del>	1,379	
Lightning Protect			LS	-	1.	12,379	
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Guberne 1			<del></del>		!		
Subtotal			1 1			1,379	
Contingency (5.00						54	
Total Contract Cos			1 1		1	1,133	
Supervision, Inspec	ction & Overnead	(3.308)			] ]-	52	
Total Request	1 - 1 >				1 !	1,195	
Total Request (Rous					!	1,230	
Installed Edulomo	ent - Other Approp	priations	! !		i	748: (	
.) Description of Proposed Com					<del></del>		
1		l new and u				7	
protection systems							
installation of all							
powder preparation	area, air termina	als on alr	nandier	s, alr t	erminais (	over	
vehicle parking si							
replacement of u-b					ua combre	د <b>ه</b>	
lightning protection	on systems on cer	aln critic	al bull	alnes.			
11. REQUIREMENT:					•		
PROJECT: To proving the provin				L MODITE	MACGETAL		
	s project is requi	TERG CO COL	ract II	gataing	brorectro	a	
deficiencies.	C					_	
	CURRENT SITUATION: Currently, lightning protection is not adequate to provide protection to mobile material handling equipment being used during						
				ent beln	y used du	ring	
loading or unloadi					•		
IMPACT IF NOT PROV							
handling equipment		duturud bic	tection	, with c	ouzedrauc	risk to	
both personnel and							
ADDITIONAL: An e	conomic analysis :	is not nece	ssary f	or the p	roject.	Ali	

. COMPONENT			SATE
	FT 1030 MILITARY CONSTRUC	ZION PROJECZ DATA	
17114-993			7311 33
103TALLATION AND LOCAT	MION		
<u> Alabar Kator Kamumi</u> Tabadat Totas	1100 Plant, Indlana		
TRIVEGT TITLE		5 arouset live	<b>36</b> 7
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lantnina Protectio	<u> </u>		:
	Tanas augai:		
<u>l. RECVIRENTE</u> <u>Political</u> Combi			
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one were found to		e.zzebeenn on me bro	,,===
2. SUPPLEMENTAL D	ATA:		
A. Estimated			
(1) Statu			
	Design Start Date		Feb 38
	Percent Complete As Of 01		
	Percent Complete As Of 01		
	•		
	·		
'2) Basis	:		
	Standard or Definitive Des		
(b)	Where Design Was Most Rece	ntly Used	
	Cost (c) = $(a)+(b)$ or $(d)$		(\$000)
(a)	Production of Plans and Sp	ecifications	• • • • • • • • • • • • • • • • • • • •
(D)	All Other Design Costs		157
(c)	Total Cost		167
	Contract		
( = )	In-house		32
4) Const	ruction Start		-m; an
, , , ,			monta i vear
			•
3. Equipment	associated with this proje	ct which will be prov	nided from
ther appropriation	<b>S</b> :		
		Fiscal Year	
Equipment	Procuring	Appropriated	Cost
Nomenclature		Or Requested	<u>(\$000)</u>
OD-AMC	PA,A 4211	90	+8
		TOTAL	18
	•	•	-
A CT 10 3	PREVIOUS EDITIONS MAY BE U	SED INTERNALLY	70mm
AGE NO. 2	UNTIL EXHAUSTED		FORM . 1391C

1. COMPONENT			3.3ATE			
FY 19 <u>90 MILITARY CONSTRUCT</u>	ION PR	CUECT DATE	4			
7514-536				<u> </u>		
Dinatallation and Location - 28	ou <mark>zet :</mark>	715				
Indiana Army Ammunition Plant Indiana Har	nan Ih	<u>ipaquia 3</u>	:::::::::::::			
5 PROGRAM ELEMENT 5 INTEGORY DODE 1 PROJECT .	0.4363	* *800155	T 193T /::	:		
		1463	<u>.</u> ,	350		
400	27733	-30540	<u>:</u>	350		
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Primary Facility				1,+		
Shiphouse Buildings	LSi	-	-	2,774		
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Subtotal	1 1		i	1,774		
Contingency (5.00%)			١.	<u>89</u>		
Total Contract Cost	1 1			1,863		
Supervision, Inspection & Overhead (5.50%)				102		
Total Request				1,965		
Total Request (Rounded)			!	1,950		
Installed Equipment - Other Appropriations				559		
to description of Proposed Construction Empty, decontamin	ate, a	nd place :		surve <b>c</b> a		
on walls and ceiling rafters, and subsequently						
This project to harden all 118 shiphouses						
Paragraph 3.2.a., Chapter 5, DOD 5100.76 M; an						
Requirement in the Storage of Category III Exp				:		
11. REQUIREMENT: None ADEQUATE: None SUBS						
PROJECT: This project to harden all 118 ship			is to con	mniv		
with Paragraph B.2.a., Chapter 5, DOD 5100.76						
Security Requirement in the Storage of Categor						
	-	-				
operating in subject buildings based on a temporary waiver until such time as						
construction to harden the shiphouses has been completed. The Security Survey						
Inspection - Indiana Army Ammunition Plant, da	red II	DEC 1984	zabbotez	the		
imperative need for this project.						
CURRENT SITUATION: Currently, INAAP is opera						
on a temporary waiver until such time as const	ructio	n to harde	n the shi	rbponzez		
has been completed.				ļ		
IMPACT IF NOT PROVIDED: If this project is a						
continuous violation of the security requireme	nt in	Paragraph	B.2.a.,	Chapter		
· ·		-				

1. COMPONENT	<del></del>		:	.2673
İ	FY 13	<u>90</u> MILITARY CONSTRU	CTION PROJECT DATA	
1721Y-983				7911 33
1 INSTALLATION PA	ROITACOL C.			
1				
Indiana Army	Ammunition ?	<u> </u>		
. PROJECT TITLE			S PROUBOT CAN	323
Harden Phicade	use Builinas	3		<u> </u>
		<b>-</b>		
IL RECVIREM	<u> </u>	tuec.		
INPACT IF HOT			•	
5, DCD 5130.74	o M and 3-13	, AR 130-11.		
	NTAL DATA:	2		
l .	mated Design Status:	J464:		•
(1)		Start Jate		<u>Mav 38</u>
			January 39 (BDGT YR)	
			Cotober 39 (SECC YR)	
	•	-	Seraper 33 (Free IX)	Nov 35
	(4) 5431911	Compress sace		
(2)	Basis:			
1		rd or Definitive De	sign - Yes No	
		Cesign Was Most Rec		
		•	• •	
(3)	Total Cost	(c) = (a) + (b) or (d	) <b>~( e</b> ) :	(\$300)
			pecifications	
	(b) All Ot	her Design Costs		
	(c) Total	Cost		<u></u>
j			• • • • • • • • • • • • • • • • • • • •	
	(e) In-hou:	se	• • • • • • • • • • • • • • • • • • • •	· · · · · · <u>- · · · · · · · · · · · · ·</u>
		<b>.</b> .		Apr 90
(4)	Construction	n Start		
	•			month & Tear
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other appropri		2080 410	ect anion will be bib	· iled lion .
demon dibtohr	14020113.		Fiscal Year	•
Equipme	ent	Procuring	Appropriated	Cost
Nomencla		Appropriation	Or Requested	(\$000)
MOD-AMC		PA,A 4211	90	359
			TOTAL	559
1				
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1. COMPONENT			1 DATE	
FY 19 <u>90</u> MILITARY CON	STRUCTION P	ROJECT DAT	A	
17MY-33S			<u> </u>	A:: 13
D INSTAULATION AND LOCATION	+ PROJECT 1			
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→ . :os₹	ESTIMATES			
17214	378	YTITKADE	1037	003T
			1537	
Primary Facility				2,472
Bulk Prop. Verification Facility	; L3	-	-	(2,472)
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Subtotal		1		2,472
Contingency (5.00%)	1	1	1	124
Total Contract Cost	ì	1	1 1	2,596
Supervision, Inspection & Overhead (5	50%)	}	1	143
Total Request	,	1	1	2,739
Total Request (Rounded)		ļ		2,750
Installed Equipment - Other Appropriat	- ans	1		223
ingesting reference acres whiteholder				
13 Description of Proposed Construction The Duik D	ropellant ve	rification	ingilizy	wall
consist of three inspection bays, four				
mechanical areas as shown on PDB-1. draw:	ng 200-000-	OB9 and Co	erne of Fac	7170075
drawings T17-D5 and Specification 216-13	2-01 The f	aciliny m	equires bar	reier
wall construction in accordance with TM				
sprinklers, deluge and lightning protect	sion and inc	lude heati	ng and all	-
conditioning. Electrical apparatus in	the increasi		ill seer C	
Division 1, Group G. Access road, truck				
will be provided. Accesibility for the				1119
functional reasons.	uguatespher	noc redu		
11. REQUIREMENT: 8,135 SF ADEQUATE: 3	IODA CURCES	NDARD. 2	135 SF	
PROJECT: This project will provide a				s G ý
regulations for a life cycle and assess				
characteristics and their effect on cher	FICST SCSDII	rea qua bu	ARTCAT	
deterioration of energetic materials.				
RECUIREMENT: Facilities meeting safety	A Lednilewer	Jon c sa	exist at	LNAAP
for ammunition surveillance in accordance	ce with SB 7	42-1300-94	<b>1−2</b> .	
CURRENT SITUATION: The bulk propellant				
accomplished in a shiphouse: a structur	e with wood	plank floo	ors creati	ng a

L. COMPONENT	:				4.1ATE
			FY 1990 MILITARY CONSTRUC	TION PROJECT DATA	
4.734Y=31	35		<del></del>		7311 13
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indiana .	samy 3		ition Plant, Indiana		
4 PROJECT				\$ 230UECT 1	1387
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12.1 % 3-A	nai tar		sification Facility	23	127
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350	علات فالمدد		(Continued)		
CURRENT					
			i lodgement of energetic ma		
1-			ilding has no deluge or spr		
1			- · · · ·	THRIEF SYSTEM INC 1	ses not compa;
			ety regulations.		
			IDED: A Request for Waive	er to operate in the	15 13
			required.		
			project has been reviewed		
			Program Evaluation Policy a		
			omic analysis per paragraph		29. This
exemption	u sbb	Lies :	when there is no feasible s	ilternative.	
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12 SUP	יבאבים				
à.			Design Data:		
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ļ					<u>May 38</u>
1			Percent Complete As Of 01		
i .			Percent Complete As Of 01		
1		(d)	Design Complete Date		Nov 88
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ŀ	(2)	Basi.			
			Standard or Definitive Des		
1		(þ)	Where Design Was Most Rece	ently Used	
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ł	(3)			•	\$000
		( 4 )	Production of Plans and Sp	ecifications	
		<b>5</b> )	All Other Design Costs		
		(C)	Total Cost		· ·
1		(d)	Contract		· · · · · · · <u> </u>
1	•	( • )	In-house		<u> </u>
1					
ł	(4)	Cons	truction Start		Apr 90
					month & year
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			associated with this proje	ect which will be pro	ovided from
other ap	propr:	iatio	ns:		
				Fiscal Year	
5	quipme	ent	Procuring	Appropriated	Cost
Nom	encla	ture	<u>Appropriation</u>	Or Requested	<u>'5000\</u>
Equipmen	t -		PA, A	90	393
]				TOTAL	393
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**SECTION 1 - FY 1990** 

1.COMPONENT					C.DATE	
	FY 1330 MILITARY	CONSTRUCT	ON PR	CUECE DAE.	3	
ARMY-993						JR11 39
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lowa Army Ammunitio				Truck 30		
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Primary Facility					:	525
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Subtotal			, ,		}	525
Contingency (10.00%						53
Total Contract Cost			1 1	•	ļ <sup>-</sup>	578
Supervision, Inspec	tion & Overnead	(5.50%)				32
Total Request	4. 4.		1 1		1	513
Total Request (Roun		_:	!!!			510
rustalled idulbme	nt - Other Approp	riations				
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MAGAZINE STRUCTURES						c
APPROXIMATELY 50 FE				E ELEVATE		
RAIL CAR HEIGHT, AN						
	IT IS PROPOSED TO					
THE MAKESHIFT FACIL						
STRUCTURES.						
11. REQUIREMENT:	1 LS ADEQUATE: N	one SUBSTA	NDARD	: None		
	T 7 NEW TRUCK DOC				ELEVATED	, }
WAREHOUSES, BLDG.						
REQUIREMENT: THIS			TDE S	AFE AND A	DEOUATE	
FACILITIES FOR THE					-	ouses
IN ACCORDANCE WITH	···					
CURRENT SITUATION:						i
COMBINATION OF WOOD						THE SATE
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PERMANENT DOCKBOARD	-					,
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AN ELECTRIC FORKLIF						
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1. COMPONENT	-		<del></del>	<u> </u>	NTE
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4 PROJECT	71712		•	5 AROUSET THEE	ž .
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PATHS.	<u> </u>	<u> </u>			
IMPACT I	7 110 <b>0</b> 7	ROVIDE	D: THE TAAP WILL CONTI	NUE TO OPERATE IN VIOL	ATION OF
			III C4. IF THIS CONDITI		
			TIBLE TO A SAFETY HADARD		
COMDITION	N IS IN	DIREC	T VIOLATION OF HIGHER CO	MMAND MANDATE TO MAINT	AIN A LERC
ACCIDENT	POSTUR	E. IH	IS SITUATION PROMOTES IN	E RISK TO HUMAN LIFE A	ND PROPERTY
AND EQUI	PMENT O	AMAGE.			
12. SUP	PLEMENT	AL DAT	<u> </u>		
À.			sign Data:		
		tatus:			
			sign Start Date		<u> </u>
			roent Complete As Of Ol		
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	(	a) Je	sign Complete Date	• • • • • • • • • • • • • • • • • • • •	<u>Dec 38</u>
	(2) 9	lacie.			
			andard or Definitive Des	ion - Yes No	
•	(	b) Wh	ere Design Was Most Rece	ntly Used	<del>_</del> ·
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	(3) T	otal C	(a) + (b) = (a) + (b)  or  (d)	+(e).	15000
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			l Other Design Costs		
			tal Cost		
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other ap			• •		464 1151
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E	quipmen	ıt.	Procuring	Appropriated	Cost
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	ON PRO	CECT DATA		
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CHSTALLATION AND LOCATION 4 FROM	::: :::	715		
Dwa Army Ammunision Plant, Iowa - Stea	m lis	as		
PROGRAM STEMENT SOCIALED LYNERS WENEST AND A	1352	3 290000	t 103t   131	:
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3. COST ESTIMATES		<del></del>		
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INSULATE STEAM LINES	Ls	_	<b>-</b>	. 5.4
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ubtotal	1 1			5 4
Contingency (10.00%)	-		-	
otal Contract Cost				59
upervision, Inspection & Overhead (5.50%)	1 1			
otal Request	1 1			52
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otal Request (Rounded)				
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Cotal Request (Rounded) Installed Equipment - Other Appropriations	aged.	stea m lin	ies insuli	
Otal Request (Rounded) Installed Equipment - Other Appropriations 3 Descripcion of Processed Construction Repair/Replace dam	-			
otal Request (Rounded) Installed Equipment - Other Appropriations  Description of Processed Description Repair/Replace dam dd two additional inches of new insulation, an	d Last	tall new a	iluminum	ation
otal Request (Rounded) Installed Equipment - Other Appropriations  3.Description of Processed Description Repair/Replace dam add two additional inches of new insulation, an ackering on all of the 1.7 miles of steam lime	d Last	tall new a	iluminum	ation
Total Request (Rounded)  Installed Equipment - Other Appropriations  Processing to Processed Construction  Repair/Replace dams  add two additional inches of new insulation, an acketing on all of the 1.7 miles of steam limed distribution system.	d last	comprises	iluminum	ation
Total Request (Rounded)  Installed Equipment - Other Appropriations  Processing the Processed Construction Repair/Replace dams add two additional inches of new insulation, an acketing on all of the 1.7 miles of steam lime distribution system.  I. REQUIREMENT: None ADEQUATE: None SUBST	that	comprises	iluminum i the Line	ation
otal Request (Rounded) Installed Equipment - Other Appropriations  Pleaserspine of Process Description Repair/Replace dam dd two additional inches of new insulation, an acketing on all of the 1.7 miles of steam lime distribution system.  1. REQUIREMENT: None ADEQUATE: None SUBST ROJECT: This project will provide for the re	d inst	comprises  . None and improv	iluminum the line	ation
otal Request (Rounded) Installed Equipment - Other Appropriations  Description of Processed Description Repair/Replace dam dd two additional inches of new insulation, an acketing on all of the 1.7 miles of steam lime distribution system.  REQUIREMENT: None ADEQUATE: None SUBST ROJECT: This project will provide for the re insulation for the purpose of reducing heat los	ANDARI	comprises  D: None  and improvements of	tiuminum the line rement of energy	ation a 3A
otal Request (Rounded) Installed Equipment - Other Appropriations  Description of Processed Installed Repair/Replace damed do two additional inches of new insulation, an acketing on all of the 1.7 miles of steam limed distribution system.  1. REQUIREMENT: None ADEQUATE: None SUBSTROJECT: This project will provide for the remanulation for the purpose of reducing heat loss EQUIREMENT: Project is required to save mone	ANDARI pair and	comprises  Comprises  None  and improvement of  lenergy of	tiuminum the line rement of energy	ation a 3A
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otal Request (Rounded) Installed Equipment - Other Appropriations  Classerspaces of Processed Installed Equipment - Other Appropriations  Repair/Replace dam  dd two additional inches of new insulation, an acketing on all of the 1.7 miles of steam lime distribution system.  1. REQUIREMENT: None ADEQUATE: None SUBST ROJECT: This project will provide for the re insulation for the purpose of reducing heat los EQUIREMENT: Project is required to save mone selp achieve our long range energy conservation URRENT SITUATION: The existing insulation is	ANDARI Pair of and y through the plan of 45 years	comprises  C: None  and improv  waste of i energy of goals.  ear old as	tiuminum the line rement of energy conservat:	ation a 3A ion and
Installed Equipment - Other Appropriations  3.00000000000000000000000000000000000	ANDARI Spair of three plans of the plan of	comprises  C: None and improvement of u energy of goals. ear old as f, exposin	rement of energy. conservations balt-page ag bare pro	ation a 3A ion and
Installed Equipment - Other Appropriations  3.3000cmpcton of 20000000 Description Repair/Replace dam  dd two additional inches of new insulation, an acketing on all of the 1.7 miles of steam lime distribution system.  1. REQUIREMENT: None ADEQUATE: None SUBST ROJECT: This project will provide for the re insulation for the purpose of reducing heat los EQUIREMENT: Project is required to save mone telp achieve our long range energy conservation URRENT SITUATION: The existing insulation is trapped material and in many instactes has fall MPACT IF NOT PROVIDED: High maintenance cost	ANDARI pair and y through the plan of the plan of the plan	comprises  C: None and improvement of i energy of goals. ear old as f, exposit ebnergy I	rement of energy. conservations balt-page ag bare pro	ation a 3A ion and
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Installed Equipment - Other Appropriations  Conservation of Processed Description  Conservation of Processed Description  Repair/Replace damped distribution and acketing on all of the 1.7 miles of Steam lime distribution system.  Conservation System.  Conservation System.  Conservation for the purpose of reducing heat loss and acketing for the purpose of reducing heat loss and acketing for the purpose of reducing heat loss and acketing for the purpose of reducing heat loss and acketing for the purpose of reducing heat loss and acketing for the purpose of reducing heat loss and acketing acketing insulation is repaid material and in many instactions has fall MPACT IF NOT PROVIDED: High maintenance cost associated with the deteriorated insulation will second acketing with the deteriorated insulation will second acketing the control of the purpose of reducing heat loss and acketing insulation is repaid material and in many instactions has fall MPACT IF NOT PROVIDED: High maintenance cost associated with the deteriorated insulation will be acketing the provided that the deteriorated insulation will be acketing the provided that the deteriorated insulation will be acketing the provided that the deteriorated insulation will be acketing the provided that the p	ANDARI pair and y through the plan of the plan of the plan	comprises  C: None and improvement of i energy of goals. ear old as f, exposit ebnergy I	rement of energy. conservations balt-page ag bare pro	ation a 3A ion and
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Installed Equipment - Other Appropriations  3.3000cmpcios of Processed Installed Equipment - Other Appropriations  3.3000cmpcios of Processed Installed Sepair/Replace dam  add two additional inches of new insulation, an  acketing on all of the 1.7 miles of steam lime  distribution system.  1. REQUIREMENT: None ADEQUATE: None SUBST  PROJECT: This project will provide for the re-  insulation for the purpose of reducing heat los  EQUIREMENT: Project is required to save mone  telp achieve our long range energy conservation  EURRENT SITUATION: The existing insulation is  frapped material and in many instactes has fall  EMPACT IF NOT PROVIDED: High maintenance cost  associated with the deteriorated insulation will  12. SUPPLEMENTAL DATA:  A. Estimated Design Data:	ANDARI pair and y through the plan of the plan of the plan	comprises  C: None and improvement of i energy of goals. ear old as f, exposit ebnergy I	rement of energy. conservations balt-page ag bare pro	ation a 3A ion and
Cotal Request (Rounded)  Installed Equipment - Other Appropriations  Consequence of Processed Installed Color Repair/Replace damed the date of the Installed Color of the Installed Color of the Installed Color of Steam lime (distribution system)  In REQUIREMENT: None ADEQUATE: None SUBSTEMOJECT: This project will provide for the remainsulation for the purpose of reducing heat los usualistic for the purpose of re	ANDARI pair s and y thre plan 45 ye en of: s and	comprises  C: None and improvement of energy of goals. Bear old as f, exposite ebnergy linue.	rement of energy. conservations balt-page ag bare pro	ion and
Cotal Request (Rounded)  Installed Equipment - Other Appropriations  Consequence of Processed Consequences  Repair/Replace damped the date of new Insulation, and acketing on all of the 1.7 miles of steam lime additional system.  Li. REQUIREMENT: None ADEQUATE: None SUBSTEMBLE This project will provide for the relasulation for the purpose of reducing heat los REQUIREMENT: Project is required to save mone allowed our long range energy conservations for the existing insulation is prapped material and in many instactes has fall CMPACT IF NOT PROVIDED: High maintenance cost associated with the deteriorated insulation will all CONTRACT CONT	ANDARI pair s and y thre plan 45 year en of: s and	comprises  O: None and improvement of a energy of goals. ear old as f, exposit ebnergy l tinue.	rement of energy. conservat: spalt-papers bare processes	ation a 3A Lon and ar Loe Loe Loe Loe Loe Loe Loe Loe Loe Loe
Cotal Request (Rounded)  Installed Equipment - Other Appropriations  Conservation of Processed Conservations  Repair/Replace damped the additional inches of new insulation, an acketing on all of the 1.7 miles of steam lime edistribution system.  Li. REQUIREMENT: None ADEQUATE: None SUBSTEMOJECT: This project will provide for the relimination for the purpose of reducing heat los according to the purpose of reducing heat los according	ANDARI pair s and y thre plan 45 year en of: s and	comprises  O: None and improvement of a energy of goals. ear old as f, exposit ebnergy l tinue.	rement of energy. conservat: spalt-papers bare processes	ation a 3A Lon and ar
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Steam lines			* * * * * * * * * * * * * * * * * * *	5
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		cent Complete As Of 31	Company 30 (SECC VE)	
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	(d) Des	ign Complete Date		<u>ec</u>
(2)				
	(a) Sta	ndard or Definitive Des	ign - Yes No	
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(3)	Total Co	st (c) = (a) + (b) or (d)	-(e)·	5000)
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		Other Design Costs		
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(4)	Construc	tion Start		<u> Apr 90</u>
				month & year
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B. Ecrui	ibment ass	ociated with this proje	ct which will be prov	ided from
other appropr			•	
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Equip	14n#	Procuring	Appropriated	Cost
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1. COMPONENT					1.3473	
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730114	126	COST ESTIMATES			·	<del></del>
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Primary Facility	<del></del>		i			135
Rehab Rest Rooms			Ελ	3	52,000	135
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Subtotal				i	į	136
Contingency (10.00%	1)	•	1 1	1	1	19
Total Contract Cost	:					205
Supervision, Inspec	tion & Overhead	(\$ 50%)			Į.	
Total Request		( - , - , - ,		. [	-	215
Total Request (Roun	ر المراجعة ال					
-			1			223
Installed Equipme	int - Other Appro	priations				:
.3 Description of Proposed Lans	eruction Constan	ucz three es	C2 430	2/4 -	-250	
additions; one on a						
			1-20-1,	3 JA-25.	Handida	55ec
access not required						
11. REQUIREMENT:						
PROJECT: Construc						
floored building ad	ditions to conta	in separate	rest r	oom facil	ities for	men s
WOMER.		*				
REQUIREMENT: To p	rovide modern sa	nitation fac		e for ann	rovimatel:	. 10
each male and femal	e hronnerrou obe	racors, IN 9	CCOPGE	nce with	current O	אחפ
standards.						
CURRENT SITUATION:		-1 has teo m	est ro	oms which	are inade	equate
for the number of p	eople that work	in the build	ling.	<b>Suilding</b>	5A-28 has	only
one rest room which	must be used jo:	intly by mer	and w	omen. Su	ilding 3A-	-20-1
has no rest room at						_
IMPACT IF NOT PROVI					!	
	nen: we with Go	ontinue to o	hergre	ra uou-c	ambrrauce	with
OSHA regulations.	•					
12. SUPPLEMENTAL D	ATA:					
A. Estimated						
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1. COMPONENT		•	DATE
	FY 1990 MILITARY CONSTRU	CTION PROJECT DATA	
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			<u>:</u>
1. Simple tripping	e nama		
	<u>l DATA.</u>   Continued <sup>®</sup> ed Design Data.   Continued.		
(1) 3t			
1			<u>Mar 33</u>
	) Design Start Date		
	) Percent Complete As Of 01		
	) Percent Complete As Of 01		
( a	) Design Complete Date		<u>Nov 38</u>
	-:-		
(2) Ba			
	) Standard or Definitive De		
(5	) Where Design Was Most Rec	ently Used	
1	tal Cost $(c) = (a) + (b)$ or $(d)$		; <b>s</b> 0 0 0
	) Production of Plans and S	• •	
1	) All Other Design Costs .		
	) Total Cost		·
1	) Contract	•	·
(•	) In-house	• • • • • • • • • • • • • • • • • • • •	
		_	. 44
(4) Co	nstruction Start		
			month & year
			-
	nt associated with this proj	ect which will be prov	ided from
other appropriat	lons:		
	_	Fiscal Year	
Equipment	•	yobiobilated	Isat
Momenciatur		<u> </u>	\$000
· [	None		
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1. COMPONENT			I.DATE	
FY 19 <u>90</u> MILITARY CO	NSTRUCTION PRO	CUECT DATA		11 33
DICK STRADARTION AND LOCARTION	: PROJECT II	723		
Toka kamin amina usan Placa Duna		12.2.1		
S PROJEAN STEMBRE 6 CATEGORY TODE	PROJECT IMBER	+ 9300557		
20#		-10 <b>3</b> 19779		
	T ESTIMATES	<del></del>	<del>- •</del>	·
:75%	77.55	200.7177	7417	::37
	-/		:::\$ <del>†</del>	1131
Primary Facility				226
BUILT 5A-29 TRUCK DOCK	Ελι	<u>.</u> .	205,500:	205
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	i i	;		
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Subtotal				206
Contingency (10.00%)	•	ļ.		21
Total Contract Cost	ļ			227
Supervision, Inspection & Overhead (	5.50%)	-	-	12
Total Request		l I	!	239
Total Request (Rounded)				240
Installed Equipment - Other Appropri	1010115			•
JOETTANG C MODERNIAGE, DRAGGETS OF BOLDETTORE C.	an approximat	e ತಾರಿ ಎಂದಿ ಕಡ	<u> </u>	
addition to the northwest corner of bu				2-pay
depressed dock well, a pre- engineered	steel frame an	nd sided e	nclosure a	nd
contain automatic dock boards, heat and	i light. Acces	ssibility	for handic	apped
not required for functional reasons.				<del>-</del>
	substandari			
<pre>PROJECT: Construct a truck dock addition the purpose of handling incoming property.</pre>	tion to this L.	ine o asser	mptA parts	ıng
REQUIREMENT: Structure is needed to			icient han	dlina
of component deliveries.				
CURRENT SITUATION: IJ Incoming mater	ial must be had	ndled in t	he open fr	om.
semi trailer spotted on the parking ion	the north sid	ie of the		
IMPACT IF NOT PROVIDED: The current:	situation must	continue.		
	•		•	
12. SUPPLEMENTAL DATA:				
A. Estimated Design Pata: (1) Status:				
(a) Design Start Date			,	lar 38
(b) Percent Complete As				_JO
(1)	<u></u>	,	<b>,</b> <u>-</u>	
DD . COMM. 1391 PREVIOUS EDITIONS		NACCI	PAGE	10. 13
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L. COMPONENT	· ·	1990 MILITARY CONSTRU		. DATE
1217-585	21 .	TATO WITHTHAKE CONSTAG	CTION PROCECT DATA	7371 33
I INSTALLATION .	VID LOCATION			
<u>Tarra Namir Nas</u>	<u> </u>	<u>tat fors</u>		
4 490480T 71TLE			3 PROJECT US	369
				- <del>-</del>
<u>Construct Tr</u>	111 1391			
12 tipor sus	ryman alma	Continued;		
		gn Data: (Continued)		
		(Continued)		
	(c) Perc	ent Complete As Of 01	October 39 (PROG YR)	<u>130</u>
	(d) Desi:	gn Complete Date		<u> </u>
_				
(2)				
			sign - Yes No	
	(5) Aner	e Design Was Most Rec	ently used	
(3)	Total Cas	t (c) = (a)+(b) or (d	) <del>-</del> / <u>-</u> ) :	\$000
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	(e) In-h	ouse	• • • • • • • • • • • • • • • • • • • •	· · · · ——
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(4)	Construct.	ion scart,	• • • • • • • • • • • • • • • • • • • •	month & year
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B. Equi	ipment asso	ciated with this proj	ect which will be prov	vided from
other appropr		• •	•	
		·	Fiscal Year	
Equipa		Procuring	Appropriated	Cost
Momencia	<u>icure</u>	Appropriation None	Or Requested	5007
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FY 1990 MILITARY CONSTR	UCTION PRO	JECT DATA		
ARMM-983				
1.1NSTALLATION AND LOCATION	F PROJECT TIT	12		
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Primary Facility	1			322
CONSTRUCT FACILITY	SE	3,3001	34 32	289
EQUIPMENT	1251	-	-	33.
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Subtotal	1 1		1	322
Contingency (10.00%)	1 1	}	}-	32
Total Contract Cost	. !	i		354
Supervision, Inspection & Overhead (5.50)	1)	į	i_	
Total Request		!	1	374
Total Request (Rounded)	1 ;			3.70
Installed Equipment - Other Appropriation	15			, ;
		<del></del>		
.) Description of Proposed Constituetion This Supproject				
an enclosure over eight (3) Process Tanks				
entering the Building Sump. The building t				
for exhausting of fumes and allowing access				
building. All building materials to be imm			nvizonmen	15
	SUBSTANDARD			
subjected to extreme weather conditions, pu				
ice build-up on the tank pads create a seri				er, the
more serious matter is the rainfall that fi				
resulting in additional water requiring was are needed to handle process upsets and in				
sumps, continued pumping of the sumps is ne still does not quarantee available sump cap				Chis
		rd au nua	AGIGEDIE	Process
upset occur and results in a hazardous wast				
IMPACT IF NOT PROVIDED: If this subproject				
exposure to contaminated waste spills exist		d result	in unsche	anted
plant shutdown for extended period of time.				

1 COMPONENT			<del></del>	SATE
		FY 1330 MILITARY CONSTRUC		
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Radiosura i		ates in Building	288	-
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	-14 27 1 1 27 1 2			
	MENTAL			
		Design Data.		•
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		Design Start Date		
		Percent Complete As Of 01		
	(c)	Percent Complete As Of 01	October 39 (PROG YR).	130
	(は)	Design Complete Data		10v 36
1.2	l) Basi	<b>s</b> :		
,		Standard or Definitive Des	ion - Yes No	•
		Where Design Was Most Rece		_
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, ,		1 Cost (c) = (a) = (b) or (d)	-/	\$ 0 0 0
\ <del>-</del>				3
		Production of Plans and Sp		<del></del>
		All Other Design Costs		
	• •	Total Cost		
	(d)	Contract		
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(4	() Cons	truction Start	•	Apr 90
		·		month & year
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3. Ec	ruipment	associated with this proje	ct which will be prov	ided from
other appro				
			Fiscal Year	
7011	Loment	Procuring	Appropriated	lost
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omeno	clacure	<del></del>	Or Requested	<u> </u>
		None		
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1. TOMPONENT FY 1330 MILITARY CONSTRUCTION PROJECT DATA ARMY-PBS I INSTALLATION AND LOCATION + PROUEST TITLE <u>ouisiana Army Ammunition Plant. Louisiana Security - Replace</u> 5 RECORAM SLEMENT - INTESSRY ISSE 2203607 011262 . 20 500 F. COST ESTIMATES 1117 ITEM TIANTIT'S == 3 = Primary Facility 313 Sentry Station SE 1,3401 208.30 . 215 Sentry Station SZI 4881 208.001 (102) Supporting Facilities 1, 130 Security Fencing Arms and Ammo. 131 1,030 Subtotal 1,348 Contingency (5.00%) 67 Total Contract Cost 1,415 Supervision, Inspection & Overhead (5.50%) Total Request 1,493 Total Request (Rounded) 1,500 Installed Equipment - Other Appropriations 19 Description of Proposed Construction PROVIDE GUARD GATE FACILITY, PARKING AREA. SECURITY FENCE (RELOCATION AND NEW) AND GATES, EXTERIOR LIGHTING, AND ALL REQUIRED SUPPORTING UTILITIES (SEWAGE, WATER, NATURAL GAS, ELECTRICAL POWER, TELEPHONE). PROVIDE GUTTERS AND STORM DRAINS. SITE IMPROVEMENTS CONSISTS OF A MINOR AMOUNT OF EXCAVATION AND FILL (LESS THAN 24" BOTH WAYS) AND THE ESTABLISHMENT OF LAWN IN THE AREA DISTURBED BY CONSTRUCTION. FULL INSULATION OF BUILDING IS REQUIRED. ON COMPLETION OF CONSTRUCTION DEMOLISH 2 BUILDINGS (155 SQ FT) ACCESSIBILITY FOR THE HANDICAPPED WILL NOT BE PROVIDED BECAUSE OF SAFETY AND FUNCTIONAL REASONS. PRIMARY ENERGY SOURCE FOR HEATING SHOULD BE NATURAL GAS. PRIMARY ENERGY SOURCE FOR AIR CONDITIONING SHOUD BE FURNISHED FROM ELECTRICAL SOURCE. THIS SCOPE OF WORK IS NOT SITED IN A FLOOD PLAIN. INDUSTRIAL PREPAREDNESS MEASURES PROJECT IDENTIFICATION NUMBER IS 31A063 Replace area perimeter fences with FE-5 type fence. Replacement of fences

shall include, but is not limited, to gates, drainage ditch security grates,

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1. JOHPONENT
                                                                 I DATE
                    FY 1996 MILITARY CONSTRUCTION PROJECT DATA
  1247-329
1. INSTRULATION AND LOCATION
         Grany Ramunisian Flant.
 290355T TITLE
                                                        1 2211555
                                                                 * ** = = =
Security - Replace Guard Dates
     DESCRIPTING OF PROPOSED CONSTRUCTION
                                           'Continued'
proper electrical grounding and any firt work or sodding. Areas requiring
fance replacement and approximate linear feet required are:
     Area C 9.512 1f
     Area E 2,535 lf.
     Area S 9,264 lf.
     area 3 1,636 lf.
     (Pipe, steel, and dunnage yards)
     Area N 9,130 lf.
     Area L-1-12,846 lf
     Area 1-2-12,090 lf.
     62.013 15
                   6,333 SE ADEQUATE:
                                       487 SE SUBSTANDARD
           PROVIDE FACILITY TO HOUSE GUARD FUNCTION, PROVIDE THE EACH
PERIMETER GATE FOR GATE 1 AND GATE 3: PROVIDE PARKING AREA FOR INCOMING
TRAFFIC: RELOCATE AND PROVIDE ADDITIONAL FE-5 SECURITY FENCE: PROVIDE FLOOD
LIGHT ILLUMINATION; AND PROVIDE REST ROOM, VISITOR REGISTRATION AREA; AND
TRAFFIC CONTROL AREA IN THE GUARD HOUSE. Provide and install FE-5 fence to
replace existing perimeter security fence at Areas C, E, S, L-1 and L-2.
Provide security fence at Area N and selected sections of Area B.
REQUIREMENT:
               EXISTING GATE HOUSE #3 WAS CONSTRUCTED IN 1941 AND IS OF
TEMPORARY CONSTRUCTION. THE BUILDING IS OF FRAME CONSTRUCTION, NOT INSULATED,
TRANSITE SIDING, ELECTRIC HEATED, ON CONCRETE SLAB, AND CONTAINS NO REST ROOM
AND WATER. PERSONNEL WHICH REQUIRE RELIEF MUST BE RELIEVED BY A PAIRCL.
MEAREST REST ROOM IS LOCATED IN AREA S, A DISTANCE OF 2 MILES
     EXISTING GATE HOUSE #1 WAS CONSTRUCTED IN 1967. IT IS OF FRAME
CONSTRUCTION WITH BRICK VENEER LOWER HALF WALL. IT IS ELECTRICALLY HEATED,
WITH WATER COOLER, AND IS NOT EQUIPPED WITH SANITARY FACILITIES.
     IN GENERAL, THE PHYSICAL SIZE AND DESIGN IS NOT ADEQUATE FOR CURRENT
ACTIVITY REQUIREMENTS. The existing fences will be 49 years old except area S
which will be 45 years old in FY90. The use of production areas, when
explosives are involved, classifies the area as "LIMITED". As such, an FE-5
type fence is required. Ref. DoD 5160.65M, pg. 12-6-1 and 5100.76M, pg.
5-2, Par.
          C.
CURRENT SITUATION:
                    THE CURRENT OPERATION OF GATE 1 REQUIRES THAT VISITOR
PASSES BE ISSUED IN BUILDING A-102 WHICH IS LOCATED NEAR GATE 1 ALL OTHER
SECURITY FUNCTIONS ARE HANDLED BY GATE 1 AS ASSIGNED.
     GATE 3 IS NOT PRESENTLY EQUIPPED TO HANDLE VISITORS. Production area
perimeter fences are maintained and patched where possible, but are utilized
in their present deteriorated condition.
IMPACT IF NOT PROVIDED: IF REPLACEMENT FACILITIES ARE PROVIDED THE
CAPABILITIES WILL REMAIN RESTRICTED. THE PHYSICAL SECURITY ASPECTS OF BOTH
BUILDINGS ARE INCAPABLE OF MEETING GOOD PHYSICAL SECURITY PRACTICES. Failure
to apporve this project will result in the continued use of deteriorated and
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1. COMPONENT	:	<del></del>	14.	DATE			
		ry 1990 military constru	TION PROJECT DATA				
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	er kaman	ution Plant Louistans					
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Security - Re	55-703 3	Lart lates		<u> </u>			
LI RECUIREM	المدرسة ا						
		IOncunded: <u>ID:</u> Continued;					
Lnadequate fa							
•		mption to requirements of	f an economic analysis				
		S AR anoisivere drive son					
		5150.55M and 5130.75M.					
AN ECONO	MIC ANA	LYSIS FORM 3 WILL BE SUB	MITTED AT A LATER DATE	. An			
exemption to	require	ments of an economic anal	lysis is requested in	accordance			
		1-28, Para. 1-3d(3). Re	egulatory references a	re: CoD			
5150.55M and	5100.76	4.					
}		•					
12. SUPPLEME		<del></del>					
j		esign Data:					
( 1)	Status			<b>್ಷ</b> ಪ್ರಕೃತಿಕ			
		esigh Start Date ercent Complete As Of 01	**************************************	· · · · · · · · · · · · · · · · · · ·			
		ercent Complete As Of 01	•				
		esign Complete Date		Feb 39			
	(4)	darya compress base	•	<u></u>			
(2)	Basis:	•					
	(a) S	tandard or Definitive Des	sign - Yes No				
		here Design Was Most Rec		· · · · · · · · · · · · · · · · · · ·			
		•					
(3)		Cost (c) = (a) + (b) or (d)		/S000\			
}		roduction of Plans and Sp	pecifications				
	(b) All Other Design Costs						
}		otal Cost					
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(4)	Constr	uction Start		Apr 90			
` '				month & year			
1				•			
B. Equi	ipment a	ssociated with this proje	ect which will be prov	ided from			
other appropr	riations	:					
			Fiscal Year				
Ednība		Procuring	Appropriated	Cost			
Nomencla	ture	Appropriation	Or Requested	(\$000)			
1		None					
1							
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1. COMPONENT			1.0475	
FT 19 <u>30</u> MILITARY CONSTRU	CTION PRO	OJECT DATA		
49MY-98S				TAN: 33
2. IMSTALLATION AND LOCATION +	PROJECT II	713		
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PROGRAM RELEASED			T 103T 1011	<del></del> -
a contract the comments of the contract of the				
423	23850		7	
9.COST ESTIM				
CTEM	57M :	TITANTITY	231T	1257
			1037	
Primary Facility	<u> </u>			174
Storage Igloos - Area I+6	SF	1,010	172.28	(174
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See Cost Estimates (Continued)			'	
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Subtotal			1	174
Contingency (10.00%)	- 1 .1		-	17
Total Contract Cost	] ]			191
Supervision, Inspection & Overhead (5.50%)	'	I	-	11
Total Request			i i	202
Total Request (Rounded)	1 1			200
Installed Equipment - Other Appropriations	;			3
1) Description of Proposed Construction - Typnyara 3178 3				
3,02,435 2265		-		
earth covered igloos with van dock. One igl				
inches high and two igloos will be 10 ft X l				
igloos will be connected by van dock 6 ft X				
Provide one dock leveler mounted in dock. I				
minimum of 24 inches of earth. Provide hard				
existing road. An intrusion detection syste				
System includes providing and installing arm				
cable routed most feasible route to guard he			ide and in	stali
one explosion proof light in each igloo with				<u>.                                    </u>
floodlight on front of each igloo. IDS swit	CRES WIL.	l be GFM,	but will	be
installed by this project.	2772.453.4			
11. REQUIREMENT: 1,010 SF ADEQUATE: None				
PROJECT: Storage facilities are required i				
be tested as well as the explosive component	:s require	ed for des	Molition t	esting.
Currently there is no storage facilities.				
REQUIREMENT: Facilities for storing explos				
construction criteria as set forth in AR 190				
CURRENT SITUATION: Current remote storage	space do	es not mee	et the cri	teria.

1. JOMPONENT	7	<del></del>	<del> </del>	1.5ATE	
		FY 1990 MILITA	RY CONSTRUCTION PROJECT DAT	A	
15,44-01					JAN 33
3 INSTALLA	TION AL	LOCATION			
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		Ammunition Plant. 1			
4 PROJECT	7:712	•	5 94008	SEKS TO	
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Construct	t 3to:	ige Bulliings		23351	
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7	23542	ites Continued:			2
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		(Continued)	Sys stancity	_ <u> </u>	30,55
4	. 4044.	- Concinced,		Total	
11. REO	III REMI	T: (Continued)		19041	
		ON: (Continued)			
			ations due to the lack of o	n site st	corage
			tely stored components. It		
testing	are si	ored on the producti	on assembly line. This spa	ce is Tec	nuired
		holding capacity.			
IMPACT I	e Hor	PROVIDED: Failure	to approve this project wil	l force	
continue	d use	of facilities which	do not meet the criteria re	guired by	7 AR
190-11 a	nd 001	5100 75-M, Ch. 4 9	5. Itams awaiting testing	will cor	ntinue to
be held	on the	production lines th	ereby reducing the producti	on.	
ADDITION	λL:	Exemption to require	ments of an economic analys	15 15 780	niestad
			R 11-28 Para 1-3d(3). Iglo		
		h. 4 and DOD 5100.			.,
	-				
12. SUP	PLEMER	TAL DATA:	•		
A.	Esti	ted Design Data:	•		
ł	<b>(1)</b>	Status:			
		(a) Design Start Da	te		. Nov 38
			e As Of 01 January 89 (BDGT		39
		(c) Percent Complet	e As Of 01 October 39 (PROG	7R)	130
ļ		(d) Design Complete	Cate	-	<u>Jan 39</u>
	(2)	Basis:			
		(a) Standard or Def	initive Design - Yes	No	
		(b) Where Design Wa	s Most Recently Used		
	(3)	Cotal Cost (c) = (a)			(\$000)
Í		(a) Production of P	lans and Specifications		
		(b) All Other Design	n Costs		
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ł		(e) In-house	• • • • • • • • • • • • • • • • • • • •		
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ļ	(4)	Construction Start .			Mar 90
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nstrict Storige Buil	indes	<u> 233</u>	<u> </u>			
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	sociated with this brole	ct which will be pro	vided from			
ther appropriations:		Fiscal Year	Fiscal Year			
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1. DESTABLATION AND LUCAT	ION			4 290UECT	72712			

ouisiana Apmy Ammunition Flant, Louisiana Chemical Storage Suild 5 PROGRAM SLEMENT S CATEGORY TODE 1 PROJECT NUMBER af and som in lan .3000 73011A 23850 F. COST ESTEMATES :TEM 27.8 SUANTITY 1037 723 Primary Facility 2,908: 147 18 Flammable Material Storenouse SFI Subtotal Contingency (10.00%) 43 Total Contract Cost 471 Supervision, Inspection & Overhead Total Request 7 ۾ پ 300 Total Request (Rounded) Installed Equipment - Other Appropriations

This project will provide for new chemical storage buildings to be built on production lines to store chemicals used in the production and production support areas. These chemicals are normally stored in 55 gallon drums, then emptied to smaller containers for transfer to the use point. These buildings require spill containment provisions in the building foundation, proper ventilation, emergency eyewash facilities. provisions for unloading trucks, and freeze protection. Work to be accomplished at each area is as follows: AREA 8 - Construct a 16 ft. X 22 ft. concrete block building connecting to 8-1402. Concrete floor to have curb, center drain, and sump with manually operated electric pump. Provide roof and wall vents, all required utilities. Class I, Group D electrical wiring and fixtures, lighting, grounding points, and lightning protection. Provide space heaters for freeze protection, double doors and a means of unloading trucks. AREA C - Construct a 16' X 20' concrete block building with curbed concrete floor, center drain and sump with manually operated electric pump. Building to be constructed with insulated metal roof, raaf and wall vents, set of double steel doors with provisions for off loading trucks, and a window in other remaining walls. Utilities include Class I, Group D wiring and fixtures, lighting, grounding points, lightning protection, and space heaters

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PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

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1 COMPONENT		ATE
	FY 1330 MILITARY CONSTRUCTION PROJECT DATA	
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I INSTALLATION AND	10387207	
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Louisiana Army	Ammunicion Plant. Louisiana	
4 PROJECT TITLE	SEND TOBUCCES	::
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'Chamisal Storas	ra Builzings 18860	
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	N OF PROPOSED CONSTRUCTION. Concloued	
	ection. Install 14 it. wide driveway AREA D - Co	
	24 ft. concrete block (or equivalent) buildings wit	
	center drain and sump with manually operated electr	
	constructed with insulated metal roofs, roof and wa	
	teel doors with provisions for off loading trucks, a	
	ing walls. Utilities include Class I, Group D wirin	
	ing protection and space heaters for freeze protecti	
	wide concrete driveway. AREA Y - Construct a 16 ft	
1	.lding Y-2502 of concrete block to match existing str	
	d concrete block to match existing structure. Insta	
	with center drain and sump with manually operated el	
pump. Roof to	be bar joist supported 5 ply built-up roof over 3/4	inca
	d. Provide roof and wall vents, and additional 10 f	
rollup door and	one additional window   Remove window in north end	of existing
	convert to doorway. Install space heater for freeze	
Utilities to in	clude Class I, Group D wiring and fixtures, lighting	, and
	ection. After new construction is complete, raze exi	
	4, D01206, D-1243, D-1244, E-1725, and S-1609. Tota	
	d is 2,329. Accessibility for the handicapped not r	
safety reasons.		edamer en
11. REQUIREMEN		·
	ride 2,900 sq. ft. of chemical storage space meetin	e -ha
	AMCR 385-100 and AR 200-1, 40CFR12.	d rue
, -	Artic 185-100 and Ar 200-1, 400:R12. Present existing fadilities do not meet provisions o	4 1465
385-100 or AR20		I AMUA
	ON: Substandard buildings which do not meet regula	tion
	d are being operated under a safety waiver	
	ROVIDED: Chemical storage buildings that do not me	
	direments must continue to operate under safety walve	r and
continue.		
l .		
12. SUPPLEMENT		
• •	ted Design Data:	
1	tatus:	
1	a) Design Start Date	<u>May 38</u>
1	b) Percent Complete As Of 01 January 89 (BDGT YR)	
(	c) Percent Complete As Of 01 October 89 (PROG YR)	<u>100</u>
(	d) Design Complete Date	Jan 39
Í		
(2) B	Basis:	
	a) Standard or Definitive Design - Yes No	_
	b) Where Design Was Most Recently Used	
· ·	· · · · · · · · · · · · · · · · · · ·	
(3)	<pre>!otal Cost (c) = (a)+(b) or (d)+(e):</pre>	(\$000)
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1. COMPONENT			1 DATE
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1. INSTAULATION AND LOCATIO	я		•
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4 PROJECT TITLE		5 190UEQT	127
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<u>12 SUPPLEMENTAL DAT</u>	<u>la:</u> (Continued)	·	
A. Estimated De	esişm Data: (Complaued)		
(3) Total (	Cost: Continued)		15000
(a) Pi	roduction of Plans and Sg	ecifications	
(b) Al	LL Other Design Costs		
	cal Cost		
(d) Ca	ontract		
(e) Ir	i-nouse		
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(4) Constru	etion Start		Jun 90
			month & Year
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3. Equipment as	sociated with this proje	ect vaica will be pro	ovided from
other appropriations:		•	
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Equipment	Priguring	Appropriated	Cost
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. Component			· · · · · · · · · · · · · · · · · · ·	I DATE	<del></del>
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otal Contract Co	st			. ]	27
	ection & Overhead (	5.50%)	1		. 1
otal Request				:	29

.3 Description of Proposed Tosstruction Construct five single level earth covered igloca with concrete floor 10 ft. Wide  $\kappa$  13 ft. long  $\kappa$  7 ft.  $\delta$  inches high with van dock 170 ft. long x 6 ft. wide connecting all five igloos. Provide driveway for access from existing road. Igloos to be covered with a minimum of 24" of earth. An intrusion detection system must be provided on all five igloos. This will include providing and installing a minimum 6 pair transmission line routed most feasible route to Security headquarters. Transmission line to be armored fiber optic. Other components will be GFM but will be installed under this project funding. Explosion proof light is required in each igloo and a floodlight on the front of each igloo REQUIREMENT: 1,670 SF ADEQUATE: None SUBSTANDARD: 188 SF <u>PROJECT:</u> Storage igloos sufficient for storage of Category II explosives are required to support testing activities at Test Area BG5. Storage igloos are required to meet the criteria of AR190-11 and DOD 5100.76-M and AMC-R 385-100. Proper storage facilities are required to store all fuzes, blasting caps, etc as well as the items awaiting testing CURRENT SITUATION: Demolition items are currently housed in two small metal buildings which are inadequate and do not meet the requirements of AR190-11. IMPACT IF NOT PROVIDED: Failure to approve this project will deny this

Total Request (Rounded)

Installed Equipment - Other Appropriations

1 COMPONENT		<del></del>		DATE
		LA 1833 MITIEFYA COMPESCO	TION PROJECT INIA	
ARMY-PBS				1811 (A)
D INSTALLATION A		77700		
		unition Plant, louisiana		
+ 2300550 TITLE			8 PROJECT - 1	15.57
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Storade Build	11375		188	<del></del>
	.=	Continued		
		<u> TDED:</u> Continued)		
		ta storage to meet requirem	ents of Security Red	ulation
		nd DCD 5100.76-M, Ch. 4 &		
		or testing in the current p		
		production use. It will r		
		ms which cannot be accepted		
		onal exposure of personnel		
additional ha	indlin	g. There is current no IDS		
		ption to requirements of an		
		AR 11-23, Para. 1-3d(3).		
	onst	uction criteria of AR190-11	, cm. 4 and DCD 510	0 75−du Ch
4 5 5.	·			
		•		
12 SUPPLEME				
		Design Data.		
(±)	Stat			Ang. 37
		Design Start Date Percent Complete As Of 01		
		Percent Complete As 'Of 01		
		Design Complete Date		
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(2)	Basi	. <b>3</b> :		
•	(a)	Standard or Definitive Des	ign - Yes No	
	(ㅂ)	Where Design Was Most Rece	ntly Used	
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(3)	Tota	1 Cost (c) = (a)=(b) or (d)	-/ <u>-</u> /	5 1111
}		Production of Plans and Sp		
		All Other Design Costs		
		Total Cost		
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}	( • )	In-house		· · · · · · · <del> · · ·</del>
(4)	C0-4	ermanian Champ	•	Apr 90
(4)	Cons	truction Start		month & year
				month a leat
B. Ecrui	pment	associated with this proje	ct which will be pro-	vided from
other appropr				
			Fiscal Year	
Equipa	ent	Procuring	Appropriated	Cost
Nomencla			Or Requested	(\$000)
		None		
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COMPONENT					2.3A	ΤΞ.	
	LA 1330 NITIIFS	z consinucia	n jr	OUECE DAT	IA		
4.8MY-993							: : :
INSTALLATION AND LOCK	ATIIA	4 PROJ	EGT TI	71.5			
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	ÿ	. COST ESTIMATES					
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nimary Facility							3.6
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Storage buildings, approximately 51' x 25' x 11' with flat roofs, on existing or new foundations. The designer shall determine the adequacy of the existing foundations and floor slab by structural analysis, based upon the functional requirements and floor loads of storage stacks or forklifts, see note. If it is determined that new foundations/floor slabs are needed, the construction will include demolition of the existing foundations/floor slabs. Electricity and steam shall be provided to the buildings from the most economically feasible existing location. A properly sized heating system shall be installed for proper interior environment control and compressed air installed for pneumatic steam controls. Lighting and lightning protection should be provided and installed. The building truck docks shall be constructed to allow for angled truck docking and unloading.

NOTE: Concrete strength test should be performed if the design concrete strength is not known, if it is suspected that the design condrete strength was not met during construction or damage has occurred due to fire/explosion 11. REQUIREMENT: 33,150 SF ADEQUATE: 30,600 SF SUBSTANDARD: None PROJECT: Replace two (2) propellant powder storage buildings that were destroyed by fire.

506

557

31

538

590

Subtotal

Total Request

Contingency (10.00%)
Total Contract Cost

Total Request (Rounded)

Supervision, Inspection & Overhead

Installed Equipment - Other Appropriations

1. COMPONENT		
	FY 1930 MILITARY CONSTRUCTION PROJECT DATA	
18MY-985		73:133
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	y kamunition Plant, Nissouri	
A PROUEST TITLE	e andrast conses,	
ì		
Replace itora	de Building 16208	
	<u> </u>	
	troyed by fire. The storage buildings heed to be replace	•
	rand adequate storage space for propellant powder.	1 13
	Tion: At the present time, trailers are used for storage	aan
	a is not available. Powder lots are also being separated	
	stored where there is available space.	30
	PROVIDED: Continue to take ad hoc measures to compensati	te for
	storage space for propellant powder. Continue to store po	
i	necessary and pay demurrage charges on trailers. Proper	
	ures are not controllable with the use of trailers	
ADDITIONAL:	This project is currently programmed in PSR Project 5905	332 is
Subproject 17		
Estimate	d costs are in FY90 inflated 5000	
A 10 per	dent contingency factor is durrently being used in accord-	ance
	preparation guidance.	
	Mobilization Requirement: This project is needed to provi	
_	opellant powder storage facilities for appilization produc	ction
schedules.		
	icate of Savings in maintênance and operation is not requ	ired.
DEH: kah	4494	
Form No.	20223	
12 SUPPLEME	NTAL DATA:	
	mated Design Data.	
1	Status	
\	(a) Design Start Date	Jun 33
	(b) Percent Complete As Of 01 January 39 (BDGT YR).	9.5
	(c) Percent Complete As Of 01 October 89 (PROG YR)	130
1	(d) Design Complete Date	Feb 39
(2)	Basis:	
ļ	(a) Standard or Definitive Design - Yes No	
]	(b) Where Design Was Most Recently Used	
(3)		(5000)
	(a) Production of Plans and Specifications	
	(b) All Other Design Costs	
	(c) Total Cost	
	(d) Contract	
	(e) In-house	
,,,	Construction Chart	Tun 20
(4)	Construction Start	Jun 90
	AONT:	s year

1 ICHPONENT			2.5478
	FY 1990 MILITARY CON	STRUCTION PROJECT DATA	
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12.5		•	5225
Replace Storage Sur		<del></del>	-42-
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10 SUPPLEMENTAL	NATA: 'Continued'		
3. Equipment	associated with this	project which will se p	rovided from .
other appropriation			i
		Fiscal Year	
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Equipment	Procuring		
Nomenclature	Appropriation	<u>Or Requested</u>	<u> </u>
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1. Component			1.JATE	
PEWA-688 LA 1330 WITHIYKA CONSI	RUCTION PR	.co ece. ball	•	JAN 39
2.INSTALLATION AND LOCATION	F PROJECT TO	:712		
Lake City Army Ammunition Plant: Hissoury				5 4374
S PROGRAM ELEMENT 6 CATEGORY JODE: ] PROJE	EBENUE TO	3 790U <b>Z</b> 0		
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311 9.cost EST	27410 MATES			<u> </u>
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	<b>5/</b> ₩ }	GUANTITY	1037	70.57
Primary Sacility				215
Emergency Generators	1.5	-	-	213
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Subtotal			1	·
Contingency (5.00%)	} }		}	215
Total Contract Cost	1 1		-	226
Supervision, Inspection & Overhead (5.50)	.,		1	12
Total Request			-	233
Total Request (Rounded)	1			240
Installed Equipment - Other Appropriation	ns	•		•
	<del> </del>			
10 Description of Promosed Construction Installation (	•	-	•	
(estimate 10 required) sized from 10 KV to				
for eleven (11) waste pumping stations. Ea	-		-	
with automatic starter, transfer switch, we block heater, battery and charger, ammeter				
include construction of suitable mounting				
of incoming power feeder to each generator				
generator to be provided with visible and				power
is in use.			,	
NOTE: KV is abbreviation for Rilovolt-	-Amperes (	KVA)		
11. REQUIREMENT: 820 KV ADEQUATE: None	SUBSTANDA	RD: 1,10	) KV	
PROJECT: Installation of ten (10) emerger				
the eleven (11) existing waste pumping state	tions in t	he event	of primary	/ power
failure to any or all of those locations.	_	_		
REQUIREMENT: This project is needed to co				
7 of the Standard Conditions for National E		-		
System (NPDES) Permits, the Missouri Depart				issouri
Clean Water Commission, October 1, 1980, what a. Provision of an alternate power so	•			- 5.0
			charace (	
<u></u>				

1.COMPONENT 1.CATE

FY 19 90 MILITARY CONSTRUCTION PROJECT DATA

ARMY-PBS JAMES 1.000 COGNICH

<u>lake (ligy Army Romunicion Flanc) (11350471</u>

4.2ROUGET TITLE : Secure : Care to the car

## Alternata Electric Poyer for Waste

27411

<u> 11. REQUIREMENT:</u> Continued:

REQUIREMENT: Continued:

waste water control facilities; us

b. Halt or otherwise control production and all discharges upon loss of primary power to waste water control facilities.

CURRENT SITUATION: If localized power outages occur at pumping stations. the production operations discharging waste to those stations must be shut down to prevent a potential overflow and spill of untreated sanitary or industrial waste. The current emergency generating capability consists of a central 700 KV system and one portable 400 KV unit. The central system is dedicated to specific uses which do include the sewage treatment plants but not the pumping stations. The central system is operational only during total plant power outages and not useful for localized failures. The portable generator unit could be used to respond to specific locations, but the time required to recognize the power failure; to transport the generator to the site, to make the required connections and get the pump station back in operation could be too long to prevent a spill or a production shutdown. IMPACT IF NOT PROVIDED: If this project is not implemented, take City Army Ammunition Plant will continue to operate under marginal compliance with the Government regulations covering the control of pollutant discharges. Without reliable alternate electrical power available to the waste pumping stations, the Plant will remain in jeopardy of shutdown as being the only means of preventing samitary or industrial waste water spills.

ADDITIONAL: Justification for Exception of Economic Analysis is applicable for this item under provisions of paragraph 1-3d (3) AR 11-23, required by statute, regulation or directive.

Specific Modelization Requirement: This project is needed to support the mobilization production schedule which would otherwise be in jeopardy of shutdown as a means of preventing pollutant discharges.

The Mobilization Plan includes this as IPP LCN No. 0042AE and AMCCOM Project Identification No. 3LC033. This project is currently programmed as Mod. Project No. 5902752.

Estimated costs are in FY90 inflated \$000 and were provided by the Program Manager as the Corps of Engineers estimate for this project.

FORM No. 27410

RLE: kah

## 12. SUPPLEMENTAL DATA:

- A. Estimated Design Data:
  - (1) Status:

	<b></b> ·	
	Design Start Date	
(b)	Percent Complete As Of 01 January 39 (BDGT YR)	100
(C)	Percent Complete As Of 01 October 89 (PROG YR)	100
(d)	Design Complete Date	Nov 33

PAGE NO. 32

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

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1.COMPONENT				3,72
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		gn Data: (Continued)		
, 2)		derd or lofinition la	sign - Yes No	
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(3)	Total Cos	t(c) = (a) + (b) or (d)	) <del>+</del> ( <b>e</b> ) :	(\$000)
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3. Equ	ipment asso	clated with this pro;	ect which will be prov	rided from
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L. COMPONENT				9 3.34 <b>73</b>	
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1247-998					7A11_13
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Primary Facil		į l	-		1,337
Fire Detect	/Deluge Sys.	13	-		1,337
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Subtotal		_} }		)	1,337
Contingency					57
Total Contrac					1,404
	Inspection & Overhead (	5.50%)		!	77
Total Request					1,481
Total Request					1,500
-ustailed :	quipment - Other Appropri	itions			*
Jeseriation of Pro	noted Characters Transition				
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	deluge systems in the fo echnic mixes, or high exp.				
	ire hazards to the operat		nored many	iairy or	Sresenc
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2	Loading	•	racer Pro		
2	Pulldown	•	Tacer Pro	•	
3	Loading Mezzanine		Tacer Pro		
3	Loading		racer Pro		
3	Pulldown		racer Prop		
4	Loading Mezzanine		racer Prop		
4	Loading		racer Pro		
23A	Pouring Dispensing		Propellant	•	•
23B	Pelleting		gh Explosi		
23C	Pelleting		gh Explosi	•	
65	Loading Mezzanine		ropellant		
65	Loading		ropellant		
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1. COMPONENT FY 1930 MILITARY CONSTRUCTION PROJECT DATA ARMY-PBS

D. INSTALLATION AND LOCATION

laka City Army Ammunition Plant. (1550) Fi

100000 ....

Fire Detection and Delage System

DESCRIPTION OF PROPOSED CONSTRUCTION

Projectile Charging 55

Pyrotecanics & RDM

57 Pulldown

20mm Propellants Installation to include ultraviolet (5%) fire detection units, deluge nozzels, alarm communications, wiring, controls and piping to provide complete

serviceable systems

REQUIREMENT: 5,000 LF ADEQUATE: None SUBSTANDARD: None Installation of high speed ultraviolet (UV) fire detection and deluge systems to reduce the hazard to personnel and the facility in locations where propellant powders, pyrotechnics and high explosives are handled manually or present significant fire hazards to the operators REQUIREMENT: All of the fire protection deficiencies to be addressed or this project have been identified or are similar to those identified by the Department of Defense Explosive Safety Board after 1982 and 1983 inspections the United States Army Armament, Munitions and Chemical Command (AMCCOM) Safety Office during a 1984 survey, and by various safety consultants during 1985, 1986, and 1987. Reports from these inspections recommended that high speed fire detection and deluge systems be installed in the specifically identified locations to mitigate the hazard to personnel and property due to possible ignition of energetic materials being handled. Army Material Command

high hazard occupancies. CURRENT SITUATION: All locations specified in the Description of Proposed Construction section are equipped with standard heat activated sprinkler systems at the dealing. Hany of the sites also have similar sprinkler heads located directly above points of operation where energetic materials are poured or otherwise handled. Such sprinkler systems are activated by a fusible link in a matter of seconds compared to the reaction time of only millisconds for UV detection and deluge systems recommended.

Regulation ( $\lambda$ MC-R) 385-100, paragraph 12-25, requires that deluge systems be provided in addition to sprinklers for protection of operating personnel in

IMPACT IF NOT PROVIDED: If this project is not implemented, the operations identified will remain at a higher risk to personnel and property due to the fire hazards associated with handling of propellants, pyrotechnics and high explosives. Continued operations under these circumstances will be contrary to the recommendations cited in the Requirement section and to AMC-R 385-100 directives.

ADDITIONAL: Economic Justification for this project is not necessary Although preservation of property is a positive economic consequence of this project, the main objective is the protection of operating personnel from possible fire hazards and the satisfaction of safety requirements set forth in AMC-R 385-100 and recommendations made by the various safety boards and consultants cited in the Requirement section.

Specific Mobilization Requirement: This project is needed to protect the mobilization capability of the existing facility and equipment from fire damage.

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ADDITIONAL:				
		Plan includes the Buil	dings 3 and 13A eleme	ents of this
		es in industrial prepar		
		0144EM and 0138EM and		•
		1922 respectively. Thi		
as MOD Project				
•		are in FY90 inflated \$Q	00 and were provided	by the
		Corps of Engineers es		
27747: RLE:				
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12 SUPPLEMENT	TAL DATA	A :		
A. Estima		<del></del>		
	Status:			
		sign Start Data		May 36
		cent Complete As Of 01		<u> </u>
		cent Complete As Of 01		
		sign Complete Date		
·	(4)	Type doubted the transfer		<u>. 10 v </u>
(2)	Basis:		•	
	(a) Sta	andard or Definitive De	sign - Yes No	
		ere Design Was Most Rec		<del></del>
	• •	•	-	,
(3)	Total Co	ost(c) = (a) + (b) or(d	) <b>-</b> ( <b></b> ) :	[\$430]
	(a) Pro	oduction of Plans and S	pecifications	
		l Other Design Costs	=	
	(c) Tot	tal Cost		
	(d) Cor	stract	• • • • • • • • • • • • • • • • • • • •	<u></u>
	(e) In-	-house	• • • • • • • • • • • • • • • • • • • •	<u></u>
(4) (	Construc	ction Start		Apr 90
				month & year
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B. Equipa	ment ass	sociated with this proj	ect which will be pro	vided from
other appropria	ations:			
			Fiscal Year	4
Equipme	nt	Procuring '	Appropriated	Cost
Nomenclati	ure	Appropriation	Or Requested	(5000)
		None		
		•		

1. COMPONENT			2.1472	
FY 1330 MILITARY CONSTRUCT	ION PR	OJECI DAI	'A	
ARMY-PES				JAN 19
3. INSTALLATION AND LUCATION 4 PM	SUEST TI	TLE .		
Holston Romy Adminition Flant Tannessee Ele				<u> </u>
5 PROJECT COOR TO PROJECT S	.MBER	· -	ot that in	
224	21521	-11 -20130		337
1			<del></del>	35.
			•	
· ITSM	77%	QUANTITY	1037	7147
Primary Facility				1,594
New Construction	LS	-	. <b>-</b>	1,594
			ı	2, 2, 7
			i	
·			1	
Supporting Facilities	1 :	<del></del>		7 5
Paving, Walks, Curbs & Gutters	LSI	-	-	- 5
	1			
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	į			
	1 1			
			1	i
	1 1		;	
	j			ļ
Subtotal				1,569
Contingency (5.00%)	1 1		1	
Total Contract Cost .	1 1		1	1,752
Supervision, Inspection & Overhead (5.50%)				96
Total Request				1,348
Total Request (Rounded)				1,350
Installed Equipment - Other Appropriations				194
13. Description of Processes Consciuction Correct safety is				
system supplying explosives production buildin	-			1
include: upgrading the existing lightning prot				
grounding systems, masts and poles. Replaceme				
re-use of approximately half of the existing 1				
existing electrical services to provide underg				
installing secondary lightning arrestors; and				į
spacings for electrical distribution and area 11. REQUIREMENT: None ADEQUATE: None SUBS			5	
			4.6	
<u>PROJECT:</u> This project will correct electrica Holston related to the spacing between distrib				
underground electrical service to explosives o				
the lightning protection system for the explosives of				abdrage
facilities to conform to the latest requiremen				,, Manual
dated August 1985. The project will benefit t				A Saunar
modernization, reactivation, and expansion pro	•			į
correction of these problems is required durin				4501
will be gained by designing and installing the				
project rather than piecemeal under separate p				
E1 seemes aven bensomany ander saborage à	,	· .		

1. Component 2. Cate

FT 1930 MILITARY CONSTRUCTION PROJECT DATA

17117-995

32: 33

INSTALLATION AND LUCATION

Houston Ramy Ammunition Plant, Tennessee

PROJECT TITE.

5 FROUEST LINES

Electrical Safety Connections

::5::

11 RECUTREMENT: (Continued)
REQUEREMENT: Project 5372700 will correct electrical distribution and
Lightning protection deficiencies at Holston in accordance with AMCR 335-100
for all of the related projects listed below:

Project Title

3352054 | Mod Line 3, Comp C-4

5862447 Modify/Convert/Reactivate

5872439C Backup Power

5882439D Improved Dryer, 3ldg N-3 5893000A Mod Line 10, Comp A-5

5892055 Mod Loading Dock

5922439F Ammonia Neutralization 5922999 HMX/PBX Improvements

5933000B Mod Line 9, Comp A-3/A-4

Project 5873000A is programmed to correct lightning protection but not the other electrical distribution deficiencies.

CURRENT SITUATION: The lightning protection, pole spacing, and inderground electrical service requirements of the Army Safety Manual are presently in violation at Holston. During modernization, reactivation, or reconfiguration of existing facilities, the Army Safety Community has insisted that the plant be brought into compliance with the "latest" regulations. This has presented some difficulty in the most of the presently active project designs were initiated prior to the adoption of the new regulations. During this period the subject deficiencies were not addressed. In addition, cost constraints will prevent cost growth on these current projects and the necessary project funds will not be available to correct the deficiencies. Start-up of the effected facilities will not be allowed by Safety until the corrections are... made which could affect Holston's ability to meet projected FYDP, stockpiling, mobilization, or the set 1994 Modernization levels to which Holston is modernizing.

IMPACT IF NOT PROVIDED: Facilities at Holston which are being modernized, reactivated or converted (reconfigured) for production of items in the current FYDP cannot be activated without correction of these deficiencies as per Army

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i	FY 13 <u>30</u> MILITARY CONSTRU	ITION PROJECT DATA	
12117-285			
I instablation and bed	37109		
Kolston Army Anmu:	utuso Plant, Tennessee		
4 200357 75715		8 7800 <b>0</b> 00	323
ŧ			
Electrical Safety	Tonnections	115	<u>:</u> -
11 REQUIREMENT	Anger angari		
	<u> </u>		
	on shortfalls of RDX, HMX,	and Compositions/DBY!	
	this project is not accom-		3 735 636
			. 1 1207
	cord of Environmental Cons.	ideration tated a Apr.	11 155 NAS
been prepared. 3			
Ine appropria	ite safety submissions will	pe brebared and submi	itted
12. SUPPLEMENTAL			
	l Design Data:		
(1) Stat			
1	Design Start Date		<u> </u>
	Percent Complete As Of 01		
(=)	Percent Complete As Of 01	October 39 PROG TR	
(₫)	Design Complete Date .		::c:: 3 1
(2) Basi	.s:		
(a)	Standard or Definitive De	sign - Yes No	<u> X</u> _
(b)	Where Design Was Most Rec	ently Used NA	
Į.	•	,	
(3) Tota	al Cost (c) = $(a)^{2}+(b)$ or $(d)^{2}$	)+( <b>e</b> ):	(5000)
	Production of Plans and S		
E	All Other Design Costs		140
1	Total Cost		
1	Contract		<del></del>
t .	In-nouse		<del></del>
1.			
(4) Cons	struction Start		(1AR 30
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]			wonen a lear
a: Equipment	associated with this project	ear which will be oron	nded from
other appropriation		ecc autou attr de bro	Arded 110W
ocuer abbrobriger	,	Figer Very	
	•	Fiscal Year	
Equipment	Procuring	Appropriated	Cost
Nomenclature	<u>Appropriation</u>	Or Requested	(5000)
1	None		`
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1. COMPONEUT			2,2372	
FY 1990 MILITARY CONSTRUCTIO	N 23	CAC TOSTO	Λ	
ARMY-98S				JAN 39
TO INSTRUCE TION AND COUNTING A PROCE	::::	: 7:2		
Holston Army Ammunition Plant Tennessee - Const	rict	Firecrea	A.3	
S PROGRAM EDEMENT SUBSTEEDERY TODE TO PROJECT NOW.	222	ಕ ೯೯೧೮೪:	T 1337 3	
				£3:
126		- secon		£ \$40
ESTAMITES TEST :		<del></del>	_	· · · · · · · · · · · · · · · · · · ·
			7:17	12.3-
:72%	27 H.	10487177	:: <del>: T</del>	12.47 \$000
Primary Facility	1 1			530
Construct Firebreaks	- 25	-	-	533
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Subtotal		· · · · · · · · · · · · · · · · · · ·	1	530
Contingency (5.00%)	1 1		1	27
Total Contract Cost	1 1		1	557
Supervision, Inspection & Overhead (5.50%)	1 !	-		31
Total Request			]	588
Total Request (Rounded)	!!			590
1	:		•	* * * 1
Installed Equipment - Other Appropriations				12
1) Description of Proposed Construction Construct fire product				
	:5 1:	i the migh	and low	ļ
wheeling ramps of Production Lines 3 through 7.		<del> </del>		
11. REQUIREMENT: 5 EA ADEQUATE: None SUBSTAN				_
PROJECT: Construct firebreaks in the high and				·
Production Lines 3, 4, 5, 5, and 7. High ramps:				ons of
wood deck and supporting wood members with prest				
supported by steel columns. Wood and metal roof	sti	uctures w	ill be re	placed
by all metal structures. Low ramps: replace 20-	foot	sections	of wood	and
metal roof structures with metal structure.				
REQUIREMENT: Paragraph 5-28 of AMCR 385+100 re	guir	es firebr	eaks in t	he
locations planned.	•			· ·
CURRENT SITUATION: The existing firebreaks in	whee	ling ramp	s are nor	
constructed from completely noncombustible mater				
limited fire-stopping effectiveness. The existi				
accordance with firebreak policy provided by AMS				
			ecemper I	303, 4NG
endorsement to SMUPA-SE letter dated 15 December				_
IMPACT IF NOT PROVIDED: If this project is not				
and working conditions will remain. Since the e		•		
compliance with Paragraph 5-28 of AMCR 385-100,	adve	rse produ	ction sca	edule
1				ŀ

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	ە. مم≟	30 MILIINRY CONSTRUC		
ARMY-PBS	• • • • • • • • • • • • • • • • • • • •		1100 11100 201 311111	JAN 33
D INSTALLATION A	NO LUCATION			
Holaton Asmy	Admunition P	_int/ [annessee		
+ PROJECT TITLE			: 490usqt	1983
<u>'Construct Pur</u>	epreaks			7-2
·			<del>-</del>	
11 REGUEREN				
IMPACT IF HOT				
		a walver can be obt		
			essary for this pro-	
			evelopment of this p	project and
none were fou	nd to se sea	sible.		
				,
	NTAL DATA:			
Í	mated Design Status:	. Data:		
(-)		Shawb Dama	•	27
	•	Start Date	January 39 BDGT YR:	
			October 39 (PROG MR)	
		. Complete Date	reader by textor ix	
	٠, ١, ١, ١, ١, ١, ١, ١, ١, ١, ١, ١, ١, ١,	Complete Sace		<del></del>
(2)	Basis:	•		
, -,		rd or Definitive Des	ign - Yes No	χ
			rtly Used HOLSTON AA	
		-	•	
(3)	Total Cost	(c) = (a)+(b) or $(d)$	+(e):	(\$000)
	(a) Produc	tion of Plans and Sp	ecifications	<u></u>
	(b) All Ot	her Design Costs		
}	(c) Total	Cost		<u> </u>
	(d) Contra	<b>.ct</b>		·
	(e) In-hou	.se		
, <del>i</del> ,	Constructio	n Start		
				month & Year
	•			
		ated with this proje	ct which will be pro	vided from
other appropr	lations:	•	M4 a a - 1 . 15	
<b>_</b>		•	Fiscal Year	
Eduiba		Procuring	Appropriated	Cost
Nomencla	ture	Appropriation	Or Requested	(\$000)
[		None		
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}				
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1. IOMPONENT	•		1.0ATE	
FY 19 <u>30</u> MILITARY CONST	RUCTION PROJ	TECE DATE	4	
15WA-588	4.290JEST 71T			TAX 33
D INSTALLATION AND LOCATION				
Rouston Army Ammunition Flant: Tennessee	Jas Pipe <u>1</u>	1.7.9		
5 PROJEMA SEEMENT 6 DATESURY CODE 7 PROVI	ECT LUMBER	5.993522	it list i	. •
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P. COST EST	ESTANCE			
:= <u>2</u> 4	7,8	SUANTITY	2017	1237
			:::57	1000
Primary Facility	i ·			326
Corrosion Protection	LS	-	·	1325
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	i . i			
Subtotal				325
Contingency (5.00%)	-			16
Total Contract Cost				342
Supervision, Inspection & Overhead (5.50	•			. 0
Total Request	'			361
Total Request (Rounded)				360
Installed Equipment - Other Appropriatio	ne :			3.
1 1110 carred distribution 2 cuer Whiteharteero				_
.1 Controlled to Provide a COI	TOSIOR OFF	207:07 ::	am	
natural gas lines.		3011011 3		5
11. REQUIREMENT: 1 EA ADEQUATE: None S	TRETANDARD.	: 52		
PROJECT: Install a cathodic corrosion pr			tha 12=+	
natural gas main that extends from the Eas				
station on Long Island to Area B Steam Pla				• . ]
Administration Area and refuse incinerator				
(1) Testing of all dielectric fitting	•			۱ ا
(2) Verification of the electrical in signal tracing or equivalent method	ceditcy of	cue bibe	rine by r	OCALOF
(3) Location and elimination of all c		h a+ha- :		
	Ontacts with	n deuer :	necarric	5.51.11d
systems		1101		
(4) Installation of test stations eve	-	-		
REQUIREMENT: A Corrosion Reduction Surve				1
1980, pointed out that the gas line into t				ļ
residential areas and has been unprotected		-	-	,
Department of Transportation regulations r		ators of	ail natu	rai gas
pipeline systems to provide cathodic prote				
CURRENT SITUATION: There is no corrosion	protection	or the	naturai ş	as line

1.COMPONENT		<del></del>		. 34TE
		FY 1990 MILITARY CONSTRUCT	TION PROJECT DATA	
ARMY-988				
3. INSTALLATION A	.50 LUC.	VIII SH		
ı				
	Ammun	ition Plant Tennessee		
4 PROJECT TITLE			3 PROJECT J	MBER
Gas Pipe Line	<u> </u>		<del></del>	· :
11 REQUERE	, <u></u> ;	Cappinuad'		
		(Continued)		•
		essee Natural Jas meter sta	tion on Long Island	to the Area B
		earth at the pipeline is no		
		IDED: If this project is		tenance
deficiency ar	id pot	ential safety hazard will r	emain.	
		conomic analysis is not nec		
		ives were examined in the d	evelopment of this p	roject and
none were for	ind to	be feasible.		
12. SUPPLEME				
A. 15t1		Design Data:	·	
(-)				
		Percent Complete As Of 01		
		Percent Complete As Of 01		
		Design Complete Date		
1	• •	• • • • • • • • • • • • • • • • • • • •		
(2)	Basi			
		Standard or Definitive Des		
	(Þ)	Where Design Was Most Rece	ntly Used <u>HOLSTON AA</u>	P
	_			
(3)		1 Cost (c) = $(a)^{-}(b)$ or (d)		<b>5</b> 000
		Production of Plans and Sp. All Other Design Costs	eclications	
		Total Cost		
		Contract		
}		In-house		
	( - ,	•		· · · · · <del></del>
(4)	Cons	truction Start		JUN 90_
1				month & year
		•		
		associated with this proje	ct which will be pro	vided from
other appropr	iatio	Q\$:		
_			Fiscal Year	_
Equipa		Procuring	Appropriated	Cost
Nomencla	EULS	Appropriation No.	Or Requested	(\$000)
		None		
			•	
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1. COMPONENT				2 DATE	
	77,19 <u>30</u> MILITARY C	CNSTRUCTION PR	OUECT DATE	A	
7574A-552		<del></del>			JAN 19
D INSTRUCATION AND LUCE	STICH	4.PROJECT TO	712		
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Milin Army Ammunit	<u>ion Plant, Tennessee</u>	Earth Cov	ered Iplo	<u> </u>	<u> </u>
5 PPOGRAM ELEMENT	3 CATECORY CODE	FROJECT NUMBER	3 270JEC	T 333T 0.00	: :
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<u>i</u>	+22	23975	/96CDB		191
	).cos	T ESTIMATES			
	7774		QUANTITY	:317 :337	1137
L	* * ***			:03 <b>T</b>	:::::
Primary Facility		. 1			335
Earth Covered Ig	loo - Line 3	LS	-	-	(355
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	<del></del>				
Subtotal					355
Contingency (5.00	•	-) 1		1 1	13
Total Contract Cos					373
	ction & Overhead (	5.50%)		- !	21
Total Request			•	}	394
Total Request (Rou				i 1	390
Installed Equipm	ent - Other Appropri	ations			\$ 1
		<del></del>			
10 Description of Proposed to	nscruction The prima	ry facility ha	s permane	nt reinfo	rcec
concrete floor and	end walls and eithe	r corrugated m	etal or co	oncrete a	roned
top. This work is	new construction, s	ite adapted fr	om two su	mular fac	ilities
on this installati	on. Structure will	be used for st	orage of (	explosive	
components. The p	roject will include	required utili	ties serv	ices and	an
enclosed personnel	ramp and truck dock	. Not sited i	n a flood	plain.	No old
facilities will be					
	750 sf ADEQUATE: N	one SUBSTANDA	RD: None		
PROJECT: Constru	ction of a 750 sq.	ft. earth cov	ered store	ige magaz	īne.
	ject is required to				
<u> </u>	sive hazards and enh				
-	Presently bulk ex	-	-		<b>5</b> 0
	uck. Trailers are s				
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	oved as needed in th			Personn	
	g B-2 are exposed to				-
	trailers are parked				
	is magazine, trailer				
	d intraline distance	and the bulk	explo- si	res deliv	ered to
B-2 along the new	ramp.				
L					

1. COMPONENT		<b>:</b>	2418
į	*	FY 1930 MILITARY CONSTRUCTION PROJECT DATA	
12444-538			_ 7831 83
1. INSTALLATIO	M AND LOCK	NTIOY	
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94			
		ion Plant. Tennessee	<del></del>
4.28GUEST TIT	LE	5 Provest mass	E2.
Earto love:	red Islo	o - line 3 1397	•
i ==	ייים אים ד	Continued)	
		IDED   Failure to approve this project will res	
17	contrant	ag to be exposed to hazards that this project wo	ula
eliminata.			
1			
12. SUPPLE	בגדונבונב	DATA:	
		Design Data:	
		•	
(3	l) Stat		Fab 20
}		Design Start Date	Feb 38
	(b)	Percent Complete As Of 31 January 39 (BDGT YR)	130
Ì	(c)	Percent Complete As Of 01 October 39 (PROG TR)	100
		Design Complete Date	Ja: 33
}	ζ-,		
l	2) 3 <b>as</b> ı		
	-,		
	(₤)	Standard or Definitive Design - Yes No	_
•	(b)	Where Design Was Most Recently Used	
1			
(:	) Tota	<pre>L Cost (c) = (a)+(b) or (d)+(e):</pre>	(5000)
		Production of Plans and Specifications	
1		All-Other Design Costs	
ł		Total Cost	
1			
1		Contract	• • • • • • • • • • • • • • • • • • • •
	( <del>e</del> )	In-house	
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( -	i) Cons	truction Start	Apr_ 90
			tonth i 'ear
		. associated with this project which will be prov	
1			1160 110W
other appro	obilacio	•	
J		Fiscal Year	
Equi	ipment	Procuring Appropriated	Cost
Nomen	clature	Appropriation Or Requested	(\$000)
<del></del>		None	
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1.COMPONENT 1.DATE FY 1930 MILITARY CONSTRUCTION PROJECT DATA 135TALLATION AND LOCATION 4 PROJECT TITLE <u>lan Army Ammunition Plant, Tennessee</u> Earth Covered Isloo S PROGRAM ELEMENT 5. CATEGORY JOSE TUPROUECT NUMBER 1.30 -20 (20 422 13395 ). JOST ESTIMATES ITEM 3/8 THITHADE Primary Facility 343 Earth Covered Igloo - Line A 13 343 Subtotal 349 Contingency (5.00%) Total Contract Cost 366 Supervision, Inspection & Overhead (5.50%) 20 Total Request 336 Total Request (Rounded) 390 In. alled Equipment - Other Appropriations .3. Sescription of Promosed Construction The primary facility has permanent reinforced concrete floor and end walls and either corrugated metal or concrete arched top. This work is new construction, site adapted from standare Corps of Engineers drawings. Structure will be used for storage of explosive components. This project will include required util- ities services and an enclosed personnel ramp. Not sited in a flood plain. No old facilities will be destroyed. REQUIREMENT: 1,500 SF ADEQUATE: None SUBSTANDARD: None PROJECT: Construction of a 1500 sq. ft. earth covered storage magazine. REQUIREMENT: Project is required to reduce the exposure of production personnel to explosive hazards and prevent production bottlenecks. **CURRENT SITUATION:** Presently a backlog of grenades is maintained to allow assembly buildings to operate in the event of press shut- down for a short period. Railcars are now being used to hold this queue of grenades. Each railcar contains approx- imately 51,000 grenades. Sometimes as many as four rail- cars are required to hold this queue. IMPACT IF NOT PROVIDED: Failure to approve this project will result in personnel continuing to be exposed to hazards that this project would

1.50%	PONENT									3.172	
			:	Fr 199.	9 MILITAR	Y CONST	RUCTION	PROJECT	DATA		
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l											
12.	SUP	PLEME	TTAL	DATA:							
i	$\mathbf{A}$ .	Esti	aated	Design :	Data:						
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					Start Dat						Teb 38
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1			(C)		Complete						130
ł			(d)	Design :	Complete	Date					3ct 36
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ł		(2)									
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ł			( <b>b</b> )	Where C	esign Was	Most R	ecently	Used _			<del></del> _
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ł		(3).			c) = (a)						(\$000)
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ł					er Desigr ost						<del></del>
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	3.	Equi	pment	associa	ted vith	this or	oject wi	nion wil	i se sr	ovided	izom
othe		propr	-			•	•		•		
1		•						Fiscal	Year		
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	Мощ	encla	ture		Appropri	ation		Or Requ	ested	(5	<u>000)</u>
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1. COMPONENT				C. DATE	•
	LA 1930 WILLIAMA	CONSTRUCTION PR	OUTCT DATE		
ARMY-PBS					<u> </u>
3 INSTALLATION AND LO	CATION	4 PPGUEST TI	712		
	unition Plant. Texas				
FRESTELS MARDORS 5	# INTEGORY TODE	7 PROJECT MUMBER	3.2PGJIC	T 1937 211	:
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Primary Facility		1 1			309
Fire Alarm Repo	erting System	1.51	-	-	3 3 3
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<u></u>					
Subtotal	<del></del>			l i	309
Contingency (5.0	10%)	• 1			40
Total Contract Co	st				849
Supervision, Inst	ection & Overhead	(5.50%)			47
Total Request				,	395
Total Request (Ro	ounded)				300
Installed Equip	ment - Other Appropr	lations			:
		<u> </u>			
1. Description of Proposed	Constituencion Provide	radio fire alar	a reporti.	ng system	7.3
separately indica	ite an alarm at any e				
sprinkler/deluge	riser. Criteria to	be followed is:	(1) All :	oxes	
(transmitters) or	utility poles are t	o be eliminated	. No aer:	ial	
interconnecting of	abling between initi	ating device(s)	and associ	clated re	porting
	urm transmitter) is t				
	to be installed on s				
	provision) to satis				
	There practical, alar				
	ve auxiliary devices				
	utters required. Re				
thirty risers and	i ten manual stations	is required.	NOTE: The	system si	nali be
	ture requirements.			-	
		•			
11. REQUIREMENT:	130 BX ADEQUATE:	None SUBSTANDA	RD: 130	3X	
	ly reliable, easily	interpreted fir	e alarm r	porting :	system
-	re minimum response	•			•
equipment.			. = j .: <del>-</del> .		
	ovide replacement of	existing, anti-	quated Woo	eld War II	: era
1	•	,. === <del>-</del>			

INSTALLATION AND LUCATION

longhour winy annunition Plant. Texas a PROJECT TITLE

E PAGUEST UMBER

(fize Alasm Reporting System)

REQUIREMENT: (Continued)

RECUIREMENT: Continued:

hard wired series fire alarm reporting system with modern, reliable, state-of-the-art radio type fire alarm reporting system. Radio systems are less susceptible to lightning damage, which results in outages, false alarms and repair expense than the existing hard wired or telephone multiplexing alarm reporting systems. Provisions of the requested system would bring all areas of the plant into compliance with current, existing NFPA standards and regulations related to fire alarm reporting systems.

The existing Longhorn AAP fire alarm is a Type 3. Form = CURRENT SITUATION: system. It was manufactured by the Gamewell Company and is an aerial wire telegraph system which allows manual and automatic initiation of alarm signals. A punched tape and register are encoded to denote the alarm box number. Each alarm box is assigned a specific number. Bells and registers are also located at Security Headquarters and COR Safety Offices.

Initial installation of the telegraph system was made in 1942 for the Plant 1 TMT Area. Areas have been added to the system as the physical size of the plant increased to include pyrotechnic and rocket motor production areas (Plant 2 and 3). The central fire station cabinet was replaced in 1954 and other mdodifications were made in the mid-sixties. The system has been operating in its present configuration for twenty years,

The alarm system utilizes overhead transmission lines which are very susceptible to interception of lightning. Lightning damage to alarm box mechanisms and fuses within the wiring system is common. The trinsmission lines are also becoming deteriorated and in need of replacement.

Replacement of the telegraph system with a multiplex system, which ised plant underground telephone caples, was programmed for FY73. The job was awarded to a small business minority enterprise which declared bankruptcy prior to work completion. Subsequent attempts by plant and other subcontract personnel to complete the work and provide a workable system proved futile. Nonstandard devices had been used and the transmitting units proved to be highly unreliable and susceptible to lightning. That system has been abandoned in place.

The existing Gamewell system is becoming aged and availability of replacement parts into the 1990's should not be assumed. Address locations are also becoming limited as new facilities and zones of deluge fire protection are added. Rapid recognition of alarm location, even by trained personnel, is becoming more difficult. The potential exists that an alarm will not be received, false alarms will be received, and that fast, accurate determination of alarm location cannot be made.

IMPACT IF NOT PROVIDED: The plant fire alarm system will continue to deteriorate with age. Fire alarm data will not be as accurate, timely or reliable as it ought to be. Probability of major property loss, due to lack

1.COMPONENT	<del></del>	<del></del>		2.CATE
1	7¥ 19 <u>90</u> XI	LITARY CONSTRUC	TION PROJECT DATA	
15W4-588				727 44
: INSTALLATION AND	10CATION			
Linanosa kimy	wamunition Plant	. Taxas		
- PROUECT TITLE			s appublication	::323
Fire Alarm Rec	orting System			· <u>.</u> :
1				
11 REQUEREME	<u> </u>			
	<u>PROVIDED:</u> Cont			
of, or inadequ	ata notification	. Will increase.	The toility of the	Plant Fire
Protection for	ce to perform it	s assigned miss	sion would be degrade	ed.
			is been prepared for	this project
and is include	d in this docume	nt.	•	
			ernative. It does no	
degree of reli	ability, protect	ion, and potent	ial cost avoidance	ieemed
necessary.				
				. ,
12 SUPPLEMENT	TAL DATA:			
A. Estim	ated Design Data	.;		
(1)	Status:			
	(a) Design Star	t Date		<u>Jul 38</u>
	(b) Percent Com	plete As Of 01	January 39 (BDGT YR)	100
·			October 39 (PROG YR)	
	(d) Design Comp	lete Date		38
} .			•	
(2)	Basis:			
ļ	<ul><li>(a) Standard or</li></ul>	Definitive Des	sign - Yes No	
	(b) Where Desig	n Was Most Rece	ently Used	<del></del>
(3)	Total Cost (c) =	(a)+(b) or (d)	+(e)	. <b>5</b> 000
	(a) Production			
	(b) All Other D	esign Costs		
	(c) Total Cost			· · · ·
	(d) Contract		······································	· · · · · · · <u> </u>
	(e) In-house			
			•	
(4).	Construction Sta	rt		<u>Apr 90</u>
1				month & year
3 Equip	ment associated	with this proje	ect which will be pro	vided from
other appropri	ations:			
			Fiscal Year	
Equipme		rocuring	Appropriated	Cost
Nomenclat	ure App	ropriation	Or Requested	(\$000)
1		None		,
1				
1	•			
				•
1				

PAGE NO. 50

1.COMPONENT					ULDATE	
1000	er 1930 Williyy	CONSTRUCTION	IN PRO	JECT DATA		• • • •
ARMY-985 DENSTABLATION AND LOCA	#* a.v		557 :::			AY 33
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Longnosh Asmy Ammu. 15 Program Slamshit	nition flat, lexi s categoay took	15 500000 18 2000007 100		+20124 10		
is sacaket specien.	s caledest loca	293555	328			
				. 12	-	
<del> </del>	372	COST ESTIMATES	13714		<del>`</del>	
	7.	COST ESTIMATES				
	ITEM		T. M.	SATILLA	:::: <b>:</b>	1111
						<del></del>
Primary Facility		•	1 - 1			213
Physical Barrier	FE-1 Fence		LS	-	-	, 213
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Subtotal			+ +		<del></del>	33.0
	•			ĺ	ĺ	210
Contingency (5.00			1 1			11
Total Contract Cos			] ]	Ì		221
Supervision, Inspe-	ction & Overhead	(5.50%)			·	12
Total Request						233
Total Request (Rou			1			237
Installed Equipm	ent - Other Approp	priations				•
10.Description of Proposed Car		e replacement				
perimeter fence on	eastern, northern	n, and wester	rn bou	ndaries a	nd river	pump
station access are	a of Longhorn Army	y Ammunition	Plant	with new	fance of	-
similar constructi	Oti .					
11 REQUIREMENT:	85,100 LF ADEQUA	TE: None St	UBSTAN	DARD: 35	,100 LF	
PROJECT: Provide	replacement of di	ilapidated,	inadeq	uate peri	meter fen	cing
to meet minimum se						
Ammunitions Plant)					-	-
•	existing perimete	er fence was	provi	ded when	the	
installation was b						re
fence has become d						
in some areas. Th		•	-		-	
Installation Comma						
controlled area wi		•	-			
7						a. A.
protective barrier				-		
CURRENT SITUATION:					ezeurtă e	XLSTS.
The existing fence	does not meet reg	gulatory requ	ııreme	nts.	•	
	•					
IMPACT IF NOT PROV	IDED: The perime	eter fence w	ill co	ntinue to	deterior	1te

I. COMPONENT				AT2
[		FT 1330 MILITARY CONSTRUCT	ION PROJECT DATA	
4,7247-785	•			2 <u>22</u> 21 49
3 INSTALLATION A	NO 1354	TION		
i				
<u>lonanorn sem</u>		gition Plant, Texas		
4 PROJECT TOTLE			S PROJECT UMBS	
Security Fend	122 1	nd Signa		
!				<u> </u>
11. RECVIRE				
		<u> IDED:</u> (Continued)		
		uate, definable boundary wil		it to
		icted areas will not be prop		
		project has been reviewed f		
		d that this project qualifie		
A saiety site	pian,	safety submission is not re	darned for this brole	et.
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
12. SUPPLEME		<del></del>		
l .	mated Stat	Design Data:		
( - )		· ·		May 38
		Design Start Date Percent Complete As Of 01 J		<del></del>
		Percent Complete As Of 01 0		130
		Design Complete Date		10v 38
ł	. (4)	Seardu complete Sace	• • • • • • • • • • • • • • • • • • • •	
(2)	Basi	₹ .		
\-'		Standard or Definitive Desi	an - Yes No	
		Where Design Was Most Recen	· — -	<del></del>
ì	ν-,		•	<del></del>
(3)	Tota	1  Cost  (c) = (a) + (b)  or  (d) +	( <b>4</b> ):	(\$000)
1		Production of Plans and Spe	•	
		All Other Design Costs		
j		Total Cost	•	
	(설)	Contract		
]	(≥)	In-nouse		
(4)	Cons	truction Start		<u> </u>
			<b>.</b>	onth's year
1		associated with this projec	t which will be provi	ded from
other appropr	riatio	ns:	<b>-</b>	
			Fiscal Year	
Equipm Nomencla		Procuring	Appropriated	Cost
Nomence	Lure	Appropriation None	Or Requested	(\$000)
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}				
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1. COMPONENT					· 2 SATE	
!	FY 19 <u>90</u> MILITARY	CONSTRUCTION	ON PRO	YECE DYEN		
12WX-588						7AN 19
T. DISTAULATION AND LOCAT	PION	- 2900	ECT 717	LE.		
•						
Sagada Namy Kamusa	inia Pilat Pilat	ala Resi	13e /1	na Birri	icas	
	5 CATEGORY TODE	T PROJECT WIS			1137 ::	::
1						153
,	226		1916-	-0(33		
<del></del>		OST ESTIMATES				151
<u> </u>		.UST ISTLANTES				
			3783	QUARTITY	1037	33.4T 17.55
	<u> </u>				3.	
Primary Facility						1,452
REPLACE FIVE BARR	LICADES		151	-	-	(1,152)
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1				;		!
<u> </u>			1 1			
Subtotal				1		1,152
Contingency (10.00%	<b>:</b> )	•	} }	į		115
Total Contract Cost	1		1	. 1		1,267
Supervision, Inspec	tion & Overhead	(5.50%)				70
Total Request		(9.00.0)	! [			1,337
Total Request (Roun	dad				- 1	1,350
}	•		1			-,330
Installed Edulbme	nt - Other Approp	riations				
<u> </u>		<del></del>	<del></del>		<del> </del>	
.J Jeseripeios of Proposed Cus	- compact	ely remove				
five active propell					sed slat	<u>.a</u> _
11. REQUIREMENT:	None ADEQUATE:	None SUBST	ANDARD	: None		
PROJECT: Replace	three multi-story	and two si	ngle-s	tory, dou	ble reve	tted
wooden, earth fille						
barricades. The pr				-	-	-
and ductwork passing						
and roofs through t						
escape chutes and s						
is to be diverted a	-					
lighting and wiring						
1940's open wiring						
at one time, it has	been previously	decided to	collec	t the con	ditions	when
major work is perfo						
barricades corrects						Į.
	project is the e			an annual	raplace	ment
program for the bar						
period. Fifty- fou				-		I
have been completed	1. Thirteen barri	cades are b	elag :	ebraced :	n FY-37	and 38
li .						

1727Y~98S			<u>-</u>	LIATE
17277-99S	FY 13 <u>30</u> MILIT	ARY CONSTRUC	TION PROJECT DATA	
		· · · · · · · · · · · · · · · · · · ·		
INSTALLATION AND	) 1004710%			
			•	
	ABURITION Flants '	<u> </u>		
PROJECT TITLE.			i arcuest Wa	. 337
<b>a</b>				
aplaca fiva 3	TILITICAS			· · · · · · · · · · · · · · · · · · ·
. 550	NT: Continued			
e seus en la companya de la companya de la companya de la companya de la companya de la companya de la company En la companya de la companya de la companya de la companya de la companya de la companya de la companya de la			•	
		des have neco	ome excessive and can:	not keep ib
			ctural integrity same	
ssured.				
URRENT SITUAT	ION: 240 barricad	ies are recu:	ired at this plant to	neet
			ation. A portion of	
			ning ones must be rep.	
			ts. A replacement pro	
			e buildings, a faw eac	ch year.
egianing with	the ones that are	in greatest	need of replacement.	
MPACT IF NOT	PROVIDED: Without	t adequate ba	arricades, RAAP could	not
ontinue to or	erate Within exist:	ing intraline	e quantity distances.	
2 SUPPLEMEN				
	ated Design Data:			
(1)	Status:		•	
•	(a) Design Start :	Date		<u>Aug 38</u>
	(b) Percent Comple	ete As Of Ol	January 89 (BDGT YR)	100
	(c) Percent Compte	BES AS OF OT	October 89 (PROG YR)	Dec. 38
	(d) Design Complet	Le Date		<u>500 00</u>
(2)	Basis:		•	
(-,		efinitive Des	sign - Yes No	
	(b) Where Design			
			•	
(3)	Total Cost (c) = (:	a, - (b) or (d	)=(e):	3000
	(a) Production of	Plans and Sp	pecifications	· · · · <u> </u>
	(b) All Other Des:	ign Costs	·	· · · · · <u></u>
	(c) Total Cost			<u> </u>
	(d) Contract	· · · · · · · · · · · · · · · · · · ·		<u> </u>
	(e) In-house			· · · · · · <u> </u>
				1 00
(4)	Construction Start			Apr 90
				month & year
				4 4 6
3. Equip		th this proje	ect which will be pro-	Alded thom
	ations:		Dinnel Wass	
ther appropr			fiscal Year	Coop
other appropri			100000	
Equipme		curing	Appropriated	Cost
	ure Appro	curing priation one	Appropriated Or Requested	(5000)

1. COMPONENT				I. DATE	
	FY 1990 MILITARY O	COMSTRUCTION PR	CUECT DATA		
1717Y-795				-	AN 13
בן באין אכן אבלאבעבלים וב	CATION	- 290JE <b>CT †</b> :	713	-	
		•			
Radiord Army Ammu	nition Plant (issin	ia Replace H	acarcous .	asta Siri	133 _
PROURAM CLEMENT	SCCT NACESTAG &	Securet Number	3 220050	1111 1111	
			-::		
	302	13231	30620	: :	· •
•	· 30	ST ESTIMATES			
	TEX	J, <b>4</b>	INVALLA	1037	10.8T 8.000
Primary Facility			,		1,397
CONCRETE TANKS		CY	1,500:	1296 00	+++
BEXAPLAST LINER	•	SF	22,400;	25.33	5 5 3
EMVIROPAX TUBE	SETTLERS	SE	4,300	15.00	- 54
TUBE SETTLERS -	FRAME	EA	4	4,300	; 17
TUBE SETTLERS -	Baffle	ΞA	4 )	1,380	, 4
See Cost Estima	tes (Continued)	1			4903
		, i		<del></del>	
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			:		
				· · · · · · · · · · · · · · · · · · ·	
Subtotal				1	1,997
Contingency (10.0	0%)			_	200

is description of Scoopsed Construction 1 ENCAVATION AND SITE WORK.

Supervision, Inspection & Overhead (5.50%)

Installed Equipment - Other Appropriations

- 2. CONSTRUCT A TANK/TANKS WITH CONCRETE WALLS AND CONCRETE FLOORS TO REPLACE AN EQUALIZATION BASIN OF APPROXIMATELY 1 MILLION GALLONS CAPACITY. THIS TANK/TANKS SHOULD PROVIDE EQUALIZATION OF UP TO 12 MILLION GALLONS/DAY 1F ACIDIC WASTEWATER AND SETTLE APPROXIMATELY 1,000 POUNDS OF NITROCELLULOSE FINES PER DAY.
  - 3. LINE THE TANK/TANKS WITH ACID RESISTANT BEKAPLAST SYSTEM.
- 4. TANK/TANKS TO BE USED IN CONJUNCTION WITH THE PRETREATMENT FACILITY TO EQUALIZE PH.

11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None
PROJECT: CONSTRUCT A CONCRETE ACID BRICK LINED TANK/TANKS TO REPLACE THE
LINED LAGOON AT HAZARDOUS WASTE MANAGEMENT SITE NO. 4. THE TANK/TANKS WILL
BE DESIGNED TO SERVE AS AN EQUALIZATION TANK FOR VARIABLE WASTEWATER FLOW AND
VARIABLE WASTE ACID CONCENTRATION. THE WASTEWATER THAT FLOWS TO THIS
TANK/TANKS INCLUDES 5 TO 12 MILLION GALLONS PER DAY OF PROCESS WASTE FROM THE
ACID AND A AND B NITROCCULLULOSE AREAS, PLUS LEAKS AND SPILLS OF VARIOUS
QUANTITY AND CONCENTRATION FROM THE ACID TANK FARMS. THE PRETREATMENT PLANT
WILL REMAIN IN OPERATION TO ASSIST IN TREATING (MAJOR ACID SPILLS. THE
EQUALIZATION TANK/S SHOULD BE DESIGNED FOR SETTLING APPROXIMATELY 1,300 POUNDS

2,197

2.313

2.301

121

Total Contract Cost

Total Request (Rounded)

Total Request

1. COMPONENT							1. IATZ		-
}	77	1930	MILITARY	CONSTRUCTION	PROJECT	DATA			
1810Z~P93								73: 13	
I INSTALLATION AND LOC	ATION					· ·	<u> </u>		

Radiopia Armin Arminision Plant, Partinia

- Suppostor mask

Replace Hazardous Masta Burface 1900

<del>3   Tost Estimates</del>   Continued: 			Unit	Cost
<u>Item</u>	<u> ::/m</u>	Quantity	Cost	3000
Primary Facility (Continued)				
HANDRAILS - 55	13	1,300	40,00	43
4' FIBERGLASS GRATING WALKWAYS, E	LF	154	540.00	39
FILL AND COMPACTION	. CY	28,325	1.91	54
EXCAVATION - BASINS	G.	5,125	2.40	15
EXCESS FILL - REMOVAL FROM SITE	C.Z.	5,125	2.40	15
GRAVEL - 12 AGGREGATE BASE	CI	1,500	28.00	+2
PAVING - 1 ASPHALT	SY	4,444	7 30	32
360 CLAY PIPE-ACID SEWER - REMOV	LF	140	75.00	<u>::</u>
350 CLAY PIPE - ACID SEWER	. LF	275	210.59	5.3
240 CLAY PIPE - ACID SEWER	· 15	135	37 35	1.5
20 PVC SCH 30 - AIR PIPE	LF	700	5 45	÷
PVC SCH 80 - CHEM PIPE	· LF	700	5.45	4.
2 PVC QUICK CONNECTS W/VALVES	ΞA	3	50.54	
MANHOLES 4' DEEP	ËA	4	5.346	25
MANHOLES 8' DEEP	EA	4	11,904	48
CHANNELS - CONCRETE	CY	130	296.00	38
CHANNELS - BEKAPLAST LINER	SF	2,715	25.00	58
CHANNELS - FLOW CONTROL GATES	£λ	4	5,385	22
TRUCK GRATING	LF	30	320.00	2.5
CAUSTIC STORAGE TANKS - GFE	ΞA	3	4,300	13
CAUSTIC STORAGE CONCR FOUND	CY	33,20	250 00	::
CAUSTIC STORAGE - DIKES	3Y	10 13	230 00	-
CAUSTIC STORAGE - SADDLES	CZ	37.33	250 00	3
CAUSTIC PIPING	<b>:</b> s	-	-	13
40 PVC SCH 30 - CHEM PIPING	LF	300	13.00	3
CAUSTIC STORAGE - PUMPS	ΞA	5	4,300	24
CAUSTIC STORAGE - COATING	SY	539	5.00	3
DIVERSION STRUCTURE	EA	1	25,000	25
BLOWER PAD/BLOWER AID PIPING	LS	-	-	75
CHEM PUMPS AND PIPING	LS	<u>-</u>	-	_ 20
LEAK MONITORING SYSTEM	LF	1,000	20.00	` 20
SITE UTILITIES	LS	-		36
			Total	908

OF NITROCELLULOSE FINES PER DAY AND HAVE PROVISIONS FOR REMOVING THE NITROCELLULOSE FINES.

REQUIREMENT: TO AVOID A VIOLATION OF THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) REGULATIONS. THERE WAS AN EXISTING LAGOON THAT WAS BEING USED AS AN EQUALIZATION BASIN FOR ACIDIC WASTEWATER. THE LAGOON DID NOT COMPLY WITH RCRA REGULATIONS AND WAS TAKEN FROM SERVICE IN NOVEMBER 1988. AN EQUALIZATION BASIN IS REQUIRED BY THE PLANT NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT. REPLACEMENT OF THE LAGOON WITH A TANK/TANKS WILL COMPLY WITH

L. COMPONENT					DATE
			FY 1990 MILITARY CONSTRUCT	IION PROJECT DATA	
A224Y-93	3				*41* + +
	3.4 4,72	Loca	7753		
nastea .			<u> </u>		
. PROJECT II	7:2			1 12 120	227
			•		
Rapitas -		5115	iasta Surfica	1921	• •
370		· ;	"Continued.		
<u>REQUERENE</u>			tinued:		
			S REQUIREMENTS.		
			THE PLANT IS NOT IN VIOL	IMPON IM THE DEFORM	
			HE FLANT IS NOT IN 710H FROM MENAT NEED AND NOODAL DE		
			COMPLIANCE MONITORING IS I		
			HAS BEEN COMPLETED. IT WIL		
				mm 35 1250 10 1250 30	JUL JM
			IN TREATING ACID SPILLS.		
			IDED: THE EXISTING LAGOON		
			OSED IN NOVEMBER 1988., FAC		
			O TO SETTLE MITROCELLULOSE		
			IN WILL VIOLATE THE MPDES P	ERMIT( AND COULD RESU	JII III FINES.
			PUBLICITY FOR THE ARMY.		
			CONOMIC ANALYŞIS FOR THIS P		
WITH PARAG	Sraph	1-3	D(3).OF AR 11-28. IT IS REC	QUIRED IO MEET RORA F	REQUIREMENTS
			•		•
12. SUPP					
λ.	Estim	ated	Design Data:	•	
	(1)				
		(a)	Design Start Date	· · · · · · · · · · · · · · · · · · ·	, <u>7 /98</u>
		(b)	Percent Complete As Of 01	January 89 (BDGT YR).	<u>95</u>
		(C).	Percent Complete As Of 01 0	October 89 (PROG YR).	<u>100</u>
		(d)	Design Complete Date		3, 39
					- <u>-</u>
	(2)	3as1:	<b>3</b> :		
		(a)	Standard or Definitive Des:	ign - Yes _ 130	
			Where Design Was Most Reces		
			•	•	
	(3)	Tota.	L Cost (c) = $(a) - (b)$ or $(d) - (d)$	+( <b>e</b> ):	<b>3</b> 000 - 1
			Production of Plans and Spe		
		(b)	All Other Design Costs		· <del></del>
		(c)			
		(d)			
-		(e)	In-house		
		(4)	In-nodse		····· ———
	(4)	C0261	truction Start		73.V 00
	( 7 )	COUS	LIUCCION SCALE	• • • • • • • • • • • • • • • • • • • •	month & year
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			associated with this projec	er Autor Attr be bloo	rided irom
other app	robii	at10	13;	Fiscal Year	i
			<b>3</b>		
	nibwe		Procuring	Appropriated	Cost
Nome	nclat	ure		Or Requested	<u>'\$000\</u>
			None		
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I. COMPONENT			1.0ATE	
<del></del>	MILITARY CONSTRUCTION PR	OJECT DAT	A	
ARMY-935	+ PROJECT T	<del></del>	<del></del>	<u> </u>
The characters and account of	* FRUGUE			
Standard Comment Commentation and Standard				
Ruadota kemy kempaltion Plan N Program Element - 18 Satelory		. <u> </u>		
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	31 39333		-	· Pilin Page
<del></del>	).COST ESTIMATES	·		· · ·
				- ;-
CTEM	T/M	20ANTITY	1037	:33
Primary Facility			•	237
SLUDGE DRYING BED	! <b>L</b> SI	-	-	237
•				
			· .	
			1	
	: !			
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	•			•
	• ;		•	
			•	
•				
<u> </u>			1	
Subtotal				237
Contingency (10.00%)			}	24
Total Contract Cost	!			261
Supervision, Inspection & Ov	erhead (5.50%)		+ <u>-</u>	14
Total Request			1	275
Total Request (Rounded)	,			230
Installed Equipment - Othe	r Appropriations			( )
				~
.2 Description of Promosed Construction	PROVIDE FACILITIES FOR	DRYING 31	UDGE FROM	IHE
BIOLOGICAL WASTEWATER TREATM				
UTILITIES, CONCRETE WALLS, S				
AND FORCE MAIN FOR PUMPING O	F WATER COLLECTED BY THE	UNDER OR	AIN SYSTEM	<u> </u>
11. REQUIREMENT: 20,000 SQ	ADEQUATE: None SUBSTA	LNDARD: N	one	
	S FOR DRYING SLUDGE FROM			
WASTEWATER TREATMENT PLANT.	MAJOR ITEMS TO INCLUDE	SITE WORK	, UTILITIE	:s,
CONCRETE WALLS, AND BEDS, PI	PE UNDER DRAIN SYSTEM, L	INE, SLUD	GE DRAIN L	INE,
AND PUMP AND FORCE MAIN FOR	PUMPING OF WATER COLLECT	ED BY THE	UNDER DRA	IN
SYSTEM.				
REQUIREMENT: IT IS NEEDED	NOW BECAUSE THE EXISTING	VACUUM B	ELT FILTER	IS
OVERLOADED AND FACILITIES AR				
SLUDGE WHEN THE SLUDGE PRESS				
CURRENT SITUATION: THE EXT			THE EXIST	ING
VACUUM BELT FILTER MORE HOUR				
TEMPORARY DRYING BED WHEN TH				·~
IMPACT IF NOT PROVIDED: IF				
FORCED TO DISPOSE OF SLUDGE	IN AN UNDINED FACOUN MAI	.CA MAX CO	NIAMINATE	IMA
GROUNDWATER.				

. COMPONENT			4	ATE
		FY 1990 MILITARY CONSTRU	CTION PROJECT DATA	
<u> </u>				737, 39
:::STALLATT:	N AND LOCA	7108		
		ition Plant Missinia	1 44 JUSOT 18	
. Pagning it	13		1 - 4 - 3 U <b>E</b> B W	۵.۶ - ا
_		<u>.</u> •.	1920	•
Construct	<u> </u>			
	من کنتا د کنتا	Contidued'		
		CONOMIC ANALYSIS FOR THIS	ב יים שמעדעם דל דעדעם דיי ב	
		0(3) OF AR 11-28.		
	,			
12. SUPPL	EMENTAL	DATA:		
		Design Data:		
(	1) Stat	us:		
		Design Start Date		
	(ㅂ)	Percent Complete As Of 01	January 39 (BDGT YR)	<del> </del>
		Percent Complete As Of 01		<u> </u>
	(ゴ)	Design Complete Data		<u> Apr 39</u> °
(	2) 3ası	s:- -Standard or Definitive De	700	
		Where Design Was Most Rec		
	(2)	Whele Design Was Most Rec	enczy 33eg	
	3). Tota	l Cost (c) = (a)-(b) or (d	) = ( <b>e</b> ) :	* <b>\$</b> 000.
`		Production of Plans and S		
		All Other Design Costs		
	(c)	Total Cost		
	(d)	Contract		· · · · · <del> </del>
	(●)	In-house		· · · · <u> </u>
			· · · · · · · · · · · · · · · · · · ·	Tum 30
(	4) Cons	truction Start		Jun 90
				month & Jear
3 =	au:oment	associated with inis proj	ect which will be prov	ided from
other appr			·	
• •	•		Fiscal Year	
Equ	ilpment	Procuring	Appropriated	Cost
Momen	clature	Appropriation	Or Requested	[\$000 <u>\</u>
		None		
	•			
L				
DD : 000 76 1	391C	PREVIOUS EDITIONS MAY BE		PAGE NO. 59
JEC 75 4		UNTIL EXHAUST	٠	= -

# TABLE OF CONTENTS ARMY PRODUCTION BASE SUPPORT - FY 1991

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••	TABLE OF CONTENTS	
2.	STATE LIST	111
<b>3.</b>	INSTALLATION LIST	vii
4.	INSIDE THE UNITED STATES	:
	Alabama	:
	Indiana	. 5
	Iowa	
	Louisiana	. 14
	Missouri	. 19
	Tennessee	. 24
·	Texas	. 31
	Virginia	. 41

## CEPARTIENT OF THE ARM

## FISCAL YEAR 1991

# MILITARY CONSTRUCTION (PES)

# מסבובאה או פון מא האסניבאיסה.

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<del></del>	- POUZET - INGER	PROTECT TITLE	39 117-	·mulai		123111	್ಟುರ
ALADAMA		Redstone Arsenal (AMC)					:
	19143	Operations Building		1,900	1,300		-
	31109	Calibration Caboratory		540	540	:A	;
		SUBTOTAL Redstone Arsenal	3	2,540	2.540		
		* TOTAL PRS FOR ALADAMA	\$	2,340	2,540		
Codiana	•	Indiana Army Ammunition Plant (AMC)					3
	28688	Roof/Cauling Insulation		430	435	, A	3
		SUBTOTAL Indiana Army Annualizion Plant	s	<del>+</del> 30	430		
		Newport Ammy Ammunition Plant (AMC)					-
	28132	Chemical Area Sherry Reduction Program		1,300	1,500	:A	•
•		SUFFICIAL Managert Army Administran Plant	\$	1,500	1,500		
		* TOTAL PBS FOR Indiana	\$	1,930	1,930		
		• ,		•	•		
CHA		lowa Army Ammunition Plant (AMC)		520	323	-:4	:: ::
		Construct Truck Docks		240	34- 240		
	31279	Opgrade Suilding 100-148 HVAC					
		SUBTOTAL love Army Ammunition Plant	ş	370	370		
		* TOTAL PBS FOR IOMA	\$	870	370		
Cousiana		Coulsiana Army Ammunition Plant (AMC)	•			•	14
اللها المناعب	6288	Surface Roads Area L-3		400	100	NA	14
		SUBTOTAL Louisiana Army Assumition Plant	\$	400	400		
÷		• TOTAL PBS FOR LOUISIANA	\$	400	400	ı	

## DEPARTMENT OF THE ARMY

#### FISCAL YEAR 1991

# MILITARY MASTRUCTION (PBS)

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57XII		DETALLATION CONTROL					
	PROJECT	<del></del>	N.	ATHORIZATION APP	9028137704	س جے دعد	
	,C253	SOURCE TITLE		120CEST		3651.23	2455
Missour		take City Army Ammunition Plane (AMC)					٠9
	27734	Remainitate Lightning Protection		530	530	٠a.	19
		Construct Storage Pacility		570	57G	ya.	22
			_				••
		SUBTOTAL Take City Army Ammunition Plant	\$	1,200	1,200		
		• TOTAL 285 FCR Missouri	· \$	1,200	٠, 200		
Tenpessee		Holston Army Ammunition Plant (AMC)					24
	5022	Replace Magazine Bridge		4.352	4.052	٠	24
	22527	Modernize Steam Headers	•	2,350	2,350	·SA	15
			-				
		SUBTOTAL Hoiston Army Ammunition Plant	ş	6.402	6,402		
		Milan Army Ammunition Plant (AMC)					29
	28069	Metrology Laboratory		460	460	NA	29
							••
		SUSTOTAL Milan Army Ammunition Plant	\$	460	460		
		* TOTAL PBS FOR Tennessee	ş.	5.362	5,362		
		•					
Texas		Lone Star Army Ammunition Plant (AMC)					31
	29631	Pyrotecnnic Production		4.400	4.400	\iA	ند 1:
			_	<del></del>			
		SUBTOTAL Lone Star Army Ammunition Plant	\$	4.400	4.400		
		Longhorn Army Ammunition Plant (AMC)					34
	16686	Construct Fire Station		640	,640	NA	34
		Pyrotechnic Safety Enhancement		1.250	1,250	NA.	36
	31199	Construct MUSALL Complet		64.000	64,000	NQ.	39
		•	_				
		SUBTOTAL Longhorn Apply Ammunition Plant	\$	65,890	\$5,890		
		* TOTAL PRE FOR TEXAS	\$	70.290	70,290		

## DEPARTMENT OF THE ARMY FISCAL MEAN 1991

# TILITARY DISTRUCTION PBS) DULARS ARE IN THOUSANDS: DUSING THE CHITED STATES

57775		NSTRILLATION COMMANDS PROJECT TITLE	AUTM		NOTTATIONSPAGE.	PERCOR CESTON	214GE ——
Magazia		Sanford Army Ammunition Plane (AMC) Replace Pive Sarricades Puel Storage and Dispensing Station		1,1 <b>50</b> 90	1,150		41 41 43
		SUBTOTAL Radiord Army Ammunition Plant  • TOTAL PSS-FOR Virginia	\$	1,240	1,240		
·-TOTAL DIST	DE THE UNITE	D STATES FOR PES	\$	as , 332	85 , 332		

# ATTITUM ANALONISMENT ANALONISMENT SE THE YEAR

#### namilation list

USTRUMETON	*ACCH	∂AGE ——
Holston Army Ammunition Plant	AMC	24
<u>:</u>	·	
Indiana Army Ammunition Plant	AMC	5
Iowa Army Ammunition Plant	AMC	10
Lake City Army Assumition Plant Lose Star Army Assumition Plant Longhorn Army Assumition Plant Louisiana Army Assumition Plant	AMC AMC AMC AMC	19 31 34 14
, <u>a</u>		
Milan Azmy Ammunition Plant	AMC	29
Newport Army Ammunition Plant	ANC .	7
Radford Army Ammunition Plant	AHC	41
Redstone Arsenal	AMC	1

1. COMPONENT	<del></del>		2.3ATE	
FY 1931 MILITARY CON	ASTRUCTION PR	OUECT DATA		
ARMY-985 3. INSTABLATION AND LOCATION	4 200JECT TI		<del></del>	AST 33
2. Managario V. Mario Godinio	4 3500101	·		
Redstone Assenal Allsama Supporavistament is shippory coos in a	.paration	<u> </u>		
n Aftiokak bibitah na na na na na na na na na na na na na	400100 14814	t filosol tuta		
70.11.	• • • •		1.3	
73611A 222	13143 ESTIMATES	*****	1.3	···
<del></del>		<del></del>		
- MTM	77 <b>%</b> -	IUANTITY	734 <b>77</b> 70.5 <b>7</b>	1037 1003
Prinary Facility			<del></del>	1,403
Operations Building	ST	25,509	55 00	(1,403)
		t		
		:	-	
		;	*	
	! [	1		
			;	
Supporting Facilities		<del></del>	<del></del>	248
Electric Service	LS	<u>-</u> :		(
Water, Sewer & Gas	LS	_	_ :	: 58:
Paving, Walks, Curbs & Gutters	13	_ :	_ :	. 30,
Storm Drainage	LSI		_	
Site Improvement		_ ,	_	12
orre rubio.emenc	-3			•
Subtotal				1,651
Contingency (10.00%)		1	1	165
Total Contract Cost	-	1		1,816
Supervision, Inspection & Overhead (5.	60%)			102
Total Request			-	1,913
Total Request (Rounded)		1	į	1,900
Installed Equipment - Other Appropriat	71075			
	-2015			(3)
10. Description of Proposed Construction An Operatio	ons Building	is needed	to souse	
production support functions. These sup				·
areas for production, industrial engineer				
related functions that support line open				
replacement facility for medical/first a				
11. REQUIREMENT: 25,509 SF ADEQUATE:				<del>·</del>
			,835 SF	
PROJECT: This project provides housing				
throughout the plant. A new administrat	cion facility	or approx	imately 2	5,509
square feet is needed.				

REQUIREMENT: These personal are currently performing the functions of production/manufacture control, photographics, industrial engineering, safety supervision and other operational support activities from undersized and old World War II facilities that have exceeded their useful life. Most of these old facilities do not meet quantity distance requirements as specified by the new and revised Safety Manual AR 385-100. Operation is permitted now only through "grandfather clauses". Due to the fact that these old facilities do not meet quantity distance requirements, administrative personnel can not occupy space in these old facilities. The areas which will be vacated by the admin personnel will be utilized by operating personnel, if required, or

DD 1 080 76 1391

1. COMPONENT 2. DATE					
FY 19 <u>91</u> MILITARY CONSTRUCTION PROJECT DATA					
	3.3				
D.INSTALLATION AND LUCATION					
Restatione Artenial (Alcosma					
\$ 270 TOBUGRS . 3 SECOND . 5 SECO					
Toesations Bulling 18143					
11. 250073574577					
हर्त्यारहाताम् (Continued)					
utilized is minimum maintenance areas. On-site review teams have determine	zed				
that additional funding for rehabilitating these old facilities will not					
allocated.					
CURRENT SITUATION: Production support personnel are in numerous scatter	مح				
facilities throughout the plant. The majority are in World War II facili					
that have exceeded their useful life and violate quantity distance limits					
as specified in the revised AR 385-100 for housing administrative personne	e⊥.				
In addition, where these old facilities have been 'outgrown', temporary					
trailers are being rented to house personnel.					
IMPACT IF NOT PROVIDED: Continued use of obsolete World War II facilities					
that are not cost effective to maintain as well as continued operations $w$	ith				
administrative personnel within quantity distance of operating buildings:					
i.a., continued operations under a safety 'grandfather clause'. In addition,					
temporary trailers will continue to be used to house overflow personnel.					
12. SUPPLEMENTAL DATA:					
A. Estimated Design Data:					
(1) Status:					
(a) Design Start Date					
(b) Percent Complete As Of 01 January 90 (BDGT YR)					
(c) Percent Complete As Of 01 October 90 (PROG YR)					
(d) Design Complete Date					
	<del></del>				
(2) 3asis:					
(a) Standard or Definitive Design - Yes No					
(b) Where Design Was Most Recently Used					
(b) where Design was most recently used					
(2) Total Coop (a) a (a) (b) (3) (c)					
	\$000)				
(a) Production of Plans and Specifications					
(b) All Other Design Costs					
(c) Total Cost					
(d) Contract					
(e) In-house					
	ł				
(4) Construction Start					
month &	year				
	1				
B. Equipment associated with this project which will be provided from the provided of the p	D 200				
other appropriations:					
Fiscal Year	j				
Equipment Producing Appropriated Cost					
Momenclature Appropriation Or Requested (\$000)	,				
None	<del></del>				
	ĺ				

PREVIOUS EDITIONS MAY 3E USED INTERNALLY UNTIL EXHAUSTED

1.5475 1. COMPONENT FY 1991 MILITARY CONSTRUCTION PROJECT DATA ACTIVICA CUE MOITATION ALPROJECT TITLE Redatone Arsenal Al 5 POSTAM SLEMENT 3 DATECORY TODE TOPOJECT FINER 100500 3. JOST ESTIMATES 3337 :754 IUANTITY 3/1 ::::<u>:</u> Primary Facility 432 Calibration Lap SE 5,3631 34.00 , 492 Supporting Facilities 5 <u>-</u> 3 Electric Service 131 LSI . 3 Water, Sewer & Gas Steam, Chilled Water & Heat Distribution 13 Paving, Walks, Curbs & Gutters 15; Site Improvement LS 553 Subtotal Contingency (10.00%) Total Contract Cost 508 34 Supervision, Inspection & Overhead (5.50%) 542 Total Request 540 Total Request (Rounded) Installed Equipment - Other Appropriations 10 Description of Proposed Construction Build a replacement Calibration Lap to house all electrical and mechanical calibration test equipment and operations REQUIREMENT: 5,863 SF ADEQUATE: None SUBSTANDARD: 3,067 SF PROJECT: This project will provide a new facility of approximately 5,363 square feet that contains the appropriate temperature and humidity controls necessary to perform electrical and mechanical calibration. REQUIREMENT: Currently electrical and mechanical calibration can not be performed efficiently or effectively due to the total lack of appropriate temperature and humidity control that is required for modern state-of-the-art test equipment. The only temperature and humidity control presently available is provided by steam heat and window air conditioners. In addition, the electrical and mechanical calibration labs are separated and housed in wooden, temporary World War II buildings that have exceeded their useful life. There is not sufficient space in these old wooden facilities to adequately support the calibration proceedures required by the manufacturing process, or new state-of-the-art calibration equipment. CURRENT SITUATION: Currently, the electrical and mechanical calibration laboratory functions are performed in two separate, World War II buildings that only have steam heat and window air conditioners. This is not sufficient

1. JOHPONEYT		****	CATE
i	PY 13 <u>31</u> MILITARY CONSTRUC	RIAS EDELORS NOIES	
F3744-532			JA27_39
() INSTALLATION NO LUCATI	28		
Redstone Arsenal Al	30424		
4 3901007 71715		5 880JE07 UM3	Σ?.
Calibration Laborato		3313	9
II. RETUINEMENT:			
CURRENT SITUATION:			
	ure and fumidity control		
	ibration equipment. In the		
•	es have to be scheduled a	<u> </u>	
	be controlled by the wind		
	ide control capability li ion, the facilities have		
postponed. In addition beyond economic		exceeded chell daeld!	Tits and
	repair. <u>ED:    Calibration operat:</u>	one will generate	ha anhicas
	hanges in weather. This		
	ese conditions the potent		
	ment exists which in tur		
	problems. In addition :		
	II facilities will contin		
P1301 = M1	TI Idolling with court	ide cò pe dorittied and	ma_n_a_nec
12. SUPPLEMENTAL - DA	TA:		-
A. Estimated D			
(1) Status	-		
	ercent Complete As Of 01	Japuary 90 (BDGT YR).	
(c) P	ercent Complete As Of 01	October 90 (PROG YR).	
(d) D	esign Complete Date		
(2) Basis:			
(3) 5	tandard or Definitive Des	sign - Yes No	
(さ) が	here Design Was Most Rece	ently Used	·
	Cost (c) = (a) + (b) or (d)		(\$000)
	roduction of Plans and Sp		
	ll Other Design Costs		
	otal Cost		· · · · · <u> </u>
	ontract		· · · · · <u> </u>
(e) I	n-house	• • • • • • • • • • • • • • • • • • • •	· · · · · <u> · · · · · · · · · · · ·</u>
	an and a same		1
(4) Constr	uction Start		
		r	month & year
B. Equipment a	ssociated with this proje	ect which will be prov	ided from
other appropriations			
		Fiscal Year	
Equipment	Procuring	Appropriated	Cost
Nomenclature	Appropriation	Or Requested	(5000)
	None		_
1			
1			

1. COMPONENT			STACE	
ia 1331 Miliarda comenscen	ON PR	OUTET DATE		‡
ARXY-995	_			73:13
1. INSTRULATION AND LUCATION 4.280	::07 7	TLE		
Indiana Army Ammuniston Plant, Indiana Root	Tell	.ing Ingul.	11100	;
5 PROGRAM SLEMENT 5 TATEGORY 1005 1 PROJECT N			T 1337 11	
				, <u>.</u> .
300	19636	rapton		400
).cost sstimates				·
			2027	1151
1774	27A .	QUANTITY	27417 5087	105T 3000
Primary Facility	1 1			373
Roof/Cailing Insulation	23	_	_	373
				,
	;			
	1 1			
	1 1		!	
<u> </u>	1 1			
•	1 1			:
•	1			
	1 1			
	. :			
	1 1			
	1 1			
	1 1			
Subtotal	<del>-                                    </del>			373
Contingency (10.00%)	1 1			37
Total Contract Cost				
	] [			410
Supervision, Inspection & Overhead (5.50%)	1 1			23
Total Request				433
Total Request (Rounded)				430
Installed Equipment - Other Appropriations	:			
			<del> </del>	
10.Description of Proposed Construction Insulate the roof	and/d	or ceiling	areas o	£ 23
buildings. These areas will be insulated by sy	rayir	ng foam ins	sulation	over the
existing roof area, using batt insulation between	en th	e roof jos	ists or	
blowing-in fiberglass insulation above the exis	ting	cailing.	The most	<b>.</b>
appropriate insulation technique will be used f	-	_		
involved.		•		1
11. REQUIREMENT: None ADEQUATE: None SUBST	ANDAR	D: None		
PROJECT: Provide the materials and labor nece			te the	roof or
ceiling areas of 23 buildings.				
REQUIREMENT: Implementation of this project w	ri 1 1 1	aln ross -	Jann	ale and
mandated energy reduction requirements.		erh mage ;	rant 90	. Dire err
CURRENT SITUATION: Large quantities of fuel of			-	darted
at great expense, are needed to meet INAAP ener				
IMPACT IF NOT PROVIDED: It is much less expen				
Costs, to implement these projects than to cont				
supplies. Implementation of this project will	resul	t in an es	stimated	i
reduction in plant energy consumption of 20,364				
net 9.3% decline in energy use from FY87 levels				
project will result in continued consumption of				
,		:	) - <b>-</b> 1	

1. JOMPONENT				. CATE
	FT 13 <u>31</u>	MILITARY CONSTRU	CTION PROJECT DATA	
ARMY-PBS		··		JAM 39
1 INSTALLATION AND	LUCATION			
Indiana Army An	munition Plan	t. Indiana	·	···
4 PROJECT TITLE			FROJECT NO	:252
,				
Roof, Calling In	ng:Lition		295	3 3
	T Continue			
IMPACT IF NOT F	<u> </u>	ntiqued)		
of energy, the	annual equiva	lient of 3,481 ba	rrels of oil.	
•				
12. SUPPLEMENT	TAL DATA:			
A. Estima	sted Design Da	ita:		
(1) 5	Status:			
(	(a) Design St	art Date		<u>Feb_39</u> _
(	(b) Percent (	complete As Of 01	January 90 (BDGT YR)	<u>130</u>
			. October 90 (PROG YR)	
(	(d) Design Co	mplete Date		Oct 39
				<del></del>
(2)	Basis:			
	(a) Standard	or Definitive De	sign - Yes No	
;	(b) Where Des	ign Was Most Red	ently Used	
		-		
(3)	Cotal Cost (c)	= (a)+(b) or (d	i)+(e):	(\$000)
(	(a) Production	n of Plans and S	pecifications	· · · · · · <u></u> _
			•••••	
(	(d) Contract		• • • • • • • • • • • • • • • • • • • •	
(	(e) In-house			
(4)	Construction S	Start		<u> Apr 91</u>
				month & year
3. Equip	ment associate	ed with this proj	ect which will be pro-	vided from
other appropria	itions:			
			Fiscal Year	
Equipmen	at	Procuring	Appropriated	Cost
. Nomenclati	ire à	ppropriation	Or Requested	(5000)
		None		
,				
				,
			•	•
			• .	
[				

1. COMPONENT			3.DATE	
FY 19 <u>31</u> MILITARY CONSTRUC	TION PE	ROJECE DAE	À	
12MY-93S	Pougat 7			JAN 39
		Arsa Iner	Tri Requi	7227
	SGERE			
5 PRODUKAN EDEMBERT 5. IATECORY TODE 7 PROJECT	GCMBER	3 34075		
		5454		111
321	13111	Vbátso	<u>:</u>	<u> </u>
F. COST ESTIMAT	25			
ITEM	ಪ್ರಚ.	QUANTITY	737.T 20.3T	3037 3033
Primary Facility				1,192
Building Heating Systems	1.3	-	_	7958
Building Modifications	LS	_		224
			1	•
	1	i	i	
			1	4
				:
Supporting Facilities			<del></del>	
Electric Service	LS	_		1114
Freceric Setains	וכב ן	_		,
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	4 1		1	
	1		1	•
			1	
	} ]		j	1
				<del></del>
Subtotal			1	1,306
Contingency (10.00%)	1 1			131
Total Contract Cost	1			1,437
Supervision, Inspection & Overhead (5.50%)			1	79
Total Request	1		İ	1,516
Total Request (Rounded)				1,500
Installed Equipment - Other Appropriations	:		1	
1) Description of Proposed Description Deactivate Centr	3 2- 3	m 2 325	2111 1 3 2 2 2	
5000000		-	-	
and install twenty-one (21) heating units and				
on an individual building basis. Install an	automai	mic night	temperat	ure
setback system, roof and wall insulation, and		-	•	
buildings. Install a backup fuel source (No.				amergencii
		reing (111)	and an	emerdeuch
generator to continue heat during power outag				
11. REQUIREMENT: 21 LS ADEQUATE: None SUB	Standai	RD: 1 LS		
PROJECT: Deactivate central steam plant and	insta.	ll individ	ual heat:	ing
units, insulation, night setback control syst				-
shops area active buildings. The project wil				
				es camaran
quantities:				
Number of buildings to be modified: 15				
Infra red heating units: 4				
'Modular hot water heating units: 13				
Package boilers (hot water): 4				
Fuel Tanks: 14				
Diesel Generator 250 KW: 1	•			
Ceiling insulation: 22,790 Sq. ft.				
Wall insulation: 169,020 Sq. Ft.				

1.JOMPONENT	<del> </del>	2765.5
	FY 1991 MILITARY CONSTRUCTION	
   ARMET-PES	11 11 11 11 11 11 11 11 11 11 11 11 11	TAM 33
D. INSTALLATION AN	(D. 1.3.2.2.2.4)	
· 		
Nawbort Army	Anmunition Plant, Indiana	S SECURIT REPORTS
(+ PFOUSTT TITLS )		5 PROJECT WITEER
Chemical Area	Energy Reduction Program	
	<u> </u>	
PROJECT Co	ntlaued;	
Storm Wil	ndows: 2285 Sq. Ft.	
Heater E	nclosures: 14	
Undergro	und gas line 1, 1 1/2, 2: 5,240 Ln.	Ft. (with cathodic
protection)		
,		
RECUTREMENT.	This project will save an estimate	ed \$399.174 and 56.200.000
	It will reduce energy waste and ma	
equipment.	. To with reduce suerd, weare and me	armemente on outraced
	TTOM Cubica building	
	TION: Subject buildings were const	
	vation measures such as insulation a	
	plant was installed in the 1950's a	
	ls, and excessive makeup water requi	
	ted distribution system. The centra	al steam plant is operating at
	fficiency rating of 30% or less.	
IMPACT IF NOT	PROVIDED: Continued loss of \$399,	,174 and 56,200,000 STU per
year in ineff	icient use of energy and manpower.	Increased maintenance and
17	iability of the system.	
	•	
12. SUPPLEME	NTAL DATA:	
	mated Design Data:	
	Status:	
` _ ′	(a) Design Start Date	Jul 39
ı	(b) Percent Complete As Of 01 Janu	
	(c) Percent Complete As Of 01 Octo	
}	(d) Design Complete Date	
	(d) Design Complete Date	
	Basis:	
(2)		
	(a) Standard or Definitive Design	
	(b) Where Design Was Most Recently	y Used
] (3)	Total Cost (c) = $(a)+(b)$ or $(d)+(e)$	
1		fications
· ·		
1	(c) Total Cost	· · · · · · · · · · · · · · · · · · ·
	(d) Contract	<u></u>
1		
	(e) In-house	
(\$)	(e) In-house	· · · · · · · · · · · · · · · · · · ·
(4)		Jun 91
(4)	(e) In-house	· · · · · · · · · · · · · · · · · · ·
(4)	(e) In-house	Jun 91
(4)	(e) In-house	Jun 91
(4)	(e) In-house	Jun 91

CHPONENT			2100
	1391 MILITARY CONSTRUC		CATE
3.73/Y-28S	11 <u>11</u>	and they be seen	JAN 89
INSTALLATION AND LOCATION			
vpoma Army Ammuniaio:	n Plant Indiana 🚥 🗀		
ROUTET TITLE		50.870 <b>2307</b> U	1362
emical Area Therry R	eduction Program		32
בואנ בגוויים בופקט.	: Contrared)		
d. Equipment Asso her appropriations:	ociated with this proje	ect which will be pro	Arded inco
ner appropriations:		Fiscal Year	
Equipment	Procuring	Appropriated	Cost
Nomenclature	Appropriation	Or_Requested	
	None	<u> </u>	
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1. Component					2.DATE	1
	19 <u>91</u> MILITARY	TUNSTRUCTION	A SEC	GECT DATA		
Y374X-383		····				JAN 33
1. INSTALLATION AND LUCATION		4.28005	CT 111	:12		
						•
Iowa Army Ammunition 3	lant. Ibwa	Consti	22.02	Truck Co	263	
	ATEGERY 100E	7 FROUEST - UMB		5.280JEC		
				1453		
		•		-60100		
	<u> </u>		<u> </u>			£3.7
	3.5	ced teitaydes				
	:754		J, H !	SCYNLILA	23417 20 <b>57</b>	305T
	;		• • • • •	4	2037	\$222.
Primary Facility		1				539
Yard E Docks		İ	Σλ	1	134,750	(539)
ing a books				•	±34,730	, , , , , ,
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Subtotal			<del></del>	<del></del>		£70
		ļ				539
Contingency (10.00%)		ł	ł			54
Total Contract Cost					·	. 593
Supervision, Inspectio	n & Overhead	(5.50%)				33
Total Request						525
Total Request (Rounded	1		- }			<b>53</b> 0
•	•		1			
Installed Equipment	- Other Appropr	clations				. 31
		<del></del>		· — ,		
10 Description of Proposed Construct	These Ya	ird E warehou	uses	are above	baucape	j
magazine structures of	permanent cond	rete & mason	ary t	ile const	ruction	ì
measuring approximatel						arade
to rail car height and						
their east side. It i						
the makeshift faciliti	es that now pro	vide motor v	vehic	le access	to thes	e
structures.						
11. REQUIREMENT: Non	ADEQUATE: N	ione SUBSTAN	VDART	): None		
	our new truck d					Ì
						,_ i
warehouses, Bldg Nos.						ocks.
REQUIREMENT: This pr						ł
facilities for the han	dling of materi	ial from moto	or tr	rucks to t	he wareh	ouses in
accordance with the co						ļ
CURRENT SITUATION: - T						ļ
combination of wood an						
platform at one end of						
permanent dock boards	and are becomin	g structural	lly c	uestional	le becau	se of
their advancing age.						
electric fork lifts an						
THEOLIG LUER LILES AN	e the access to	raus to them	ar.	HETTOM CI	.usned fo	CK
						4

1. COMPONENT				I.JATE
1. CORPORENT			•	
		FY 19 <u>91</u> MILITARY CONSTRUC	ITION PROJECT DATA	
ARMY-995				
I.INSTALLATION 4	ND LUCAT	13%		
		-		
	unitio	n Plant: Iowa		
4 PROJECT TITLE			\$.200JECT :	7.929
ı				
Construct Iru	ack too	KS .	11:	273
11. REQUIREM	E177 :	(Construed)		
CURRENT SITUA		•		
paths.		(00.1022202)		
	30007	DED: The gurrent condition		
	<u> </u>	DED: ING GUILENC CONGIC.	Lons ind operations .	
		to cease truck transfer		
operations wi	TT COD	tinue without benefit of	in enclosed dock she.	_ter
1		•		
12. SUPPLEME				
A. Esti	<b>mated</b>	Design Data:	•	
(1)	Statu	s:		
	( <b>a</b> )	Design Start Date	• • • • • • • • • • • • • • • • • • •	<u>1167 38</u>
	(b)	Percent Complete As Of 01	January 90 (BDGT YR	}
ļ		Percent Complete As Of 01		
		Design Complete Date		
1	. – ,			· · · · · · · · · · · · · · · · · · ·
(2)	Basis			
(2)			-i V V	
	(4)	Standard or Definitive Des	sign - les No	
	(0)	Where Design Was Most Rec	eucly used	
(3)	TOTAL	Cost (c) = (a)+(b) or (d)	)+( <b>*</b> ):	(\$000)
}	(a)	Production of Plans and $S_1$	pecifications	· · · · · · · · <u> · · · · · · · · · ·</u>
		All Other Design Costs		
[	(c)	Total Cost		<u></u>
	(ਰ)	Contract	<b></b>	<u></u>
	( <b>e</b> )	In-house		. <u></u>
ł				
(4)	Const	ruction Start		Apr_91
` '				month & year
1				
n Pont	nmant.	associated with this proje	ner which will be ove	oridad from
other appropr			see which will be bid	ovided from
ocuer abbrobr	TACTOR	<b>3</b> :	Fiscal Year	
<b>9</b>				
Equipm		Procuring	Appropriated	Cost
Nomencla	ture	Appropriation	Or Requested	(\$000)
		None		
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1. Johponent			2.DATS	
FY 19 <u>91</u> MILITARY CONSTRUC	TION PRO	JECT DATE		
3.0MZ-993				JAN 33
OUNTABLATION AND LOGATION 4.8	echect in	713		
			13- <u>.</u> .i <u>a</u> m	
5 PROGRAM ELEMENT 5 JATESORY TOOS 7 PROJECT	CHEER	3 280020		
· !		-463		110
32112 321	21273	-00130		140
).COST ESTIMA				
• mpu	- T/M i	SAYNALLA	TNIT	305T 3000\
Primary Facility				209
Jpgrade HVAC	LS	-	-	(209)
			}	
		-		
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·				
·	} }			
	1 1			
			1	
Subtotal	<del></del>		<del>                                     </del>	209
Contingency (10.00%)				21
Total Contract Cost			-	230
Supervision, Inspection & Overhead (5.50%)		- . <u>-</u>	İ	13
Total Request			[	243
Total Request (Rounded)				240
Installed Equipment - Other Appropriations				(3)
				(
1) Description of Proposed Construction This project con	sists o	f insulat	ing the	
steamlines and installing a pneumatic steam of			-	Lt
heater		. <u> </u>		
11. REQUIREMENT: None ADEQUATE: None SUE	STANDARI	enok :C		
PROJECT: Provide a thermal control valve sy	stem for	r night a	nd weekend	1
temperature setback for each wing of the buil	ding, p.	lus automa	atic shute	lown of
the heating system when outside temperature i	s above	65 degree	es F. Imp	Prove
ventilation, install destratification devices	in the	sheet me	tal and ca	urpenter
shops, lunchroom and hi-line crew areas, and	silence	rs on exi:	sting	
recirculation fans.				
CURRENT SITUATION: The existing building he				
heater heaters contolled by electric thermost				
and not the steam supply. Steam continues to				
associated piping - allowing continuous radia				
losses. In addition, the 5 PSI Steamlines su	pplying	the unit	heaters a	re not
insulated.				
IMPACT IF NOT PROVIDED: The wasteful and in		nt heating	a sistem »	rill
have to continue to be operated as now exists	i.			1
				J.

1. COMPONENT			2.	JASE
1	77 L	3 <u>31</u> MILITARY CONSTRU	CTION PROUTOT DATA	
ARMY-PES				JAN 33
I INSTALLATION A	MCITADOL CH			
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Iowa Army Amm	unition Pla	nt, Iowa		
4. PROJECT SITLE			E PROJECT UN	368
1				
Updrade Build		w	•	1.5
0.001103 30111	,,,	3 - 3 -		<del></del>
1				
	3732 3473			
1	mated Desig	n Jata:		
(1)				Nov 38
				· · · · · <u> </u>
			January 90 (BDGT YR).	
1			Cotober 30 (PROG YR).	
	(d) Desig	n Complete Date		Jes 39
	•	•		
. (2)	Basis:		_	
1		and or Definitive De	sign - Yes No	
ł		Design Was Most Rec		-
1	(5) Augre	Deside was Wost Ked	entry used	
(3)		(c) = (a) + (b)  or  (d)		\$000
		ction of Plans and S	•	
	(b) All 0	ther Design Costs		·
1	(c) Total	Cost		
	(d) Contr	act		
-	(e) In-ho	use		
	.,			
1 (4)	Constructi	on Start		Apr 91
\ '''				month & year
				monch a lear
B Form			ect which will be prov	
other appropr		raced with this pio;	ect autou attr be brow	Idea IIom
ocuer appropr	. Lacions .		<b>*</b>	
_			Fiscal Year	
Equipm		Procuring	Appropriated	Cost
Nomencla	ture	Appropriation	Or Requested	<u> 50001 </u>
		None		
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104201217 2.5472 FY 1931 MILITARY CONSTRUCTION PROJECT DATA ouistana Army Ammunition Plant, Louistana Surface Roads Area 1-3 4 0ATECO72 1008 FREUE TOBUCAS 1.280JEST 103T .00500 ). JOST ESTIMATES ITEM PTITRADE TECS C/M. Primary Facility 3 + 3 ROADS PAVED SY 36,373 9 58 7348 Subtotal 348 Contingency (10.00%) 35 Total Contract Cost 383 Supervision, Inspection & Overhead 21 Total Request 404 Total Request (Rounded) 400 Installed Equipment - Other Appropriations 10 Description of Proposed Construction PROVIDE ALL WEATHER SURFACE ON EXISTING ROADBEDS. STABILIZE BASE FOR SURFACING AND PROVIDE NEW ACCESS ROADS. Phase 1 of this project is to install approximately 3.1 miles of hard surfacing on rough gravel roads in Area L-3. Scarify road bed, shape, and clean ditches. Remove any soft spots, replace in 6" lifts of sand, clay, and gravel; then compact. After all patch work is accomplished, 6" of sand, clay, and gravel shall be hauled, spread, and compacted to 95% density based on modified proctor. After base material is compacted and all test passed, base shall be surfaced with 2" bituminous mixture for hot application (hot mix). After surfacing is accomplished, shoulder material of sand, clay, and gravel shall be hauled, spread, and compacted. When completed, shoulders shall be 3' wide each side of the road. 11. REQUIREMENT: None ADEQUATE: 648,416 SY SUBSTANDARD: 72,746 SY PROJECT: This project will implement Phase I of providing a hard surface on approximately 3.1 miles of rough gravel roads. Road beds will be scarified, shaped, have soft spots removed, and then will be over- layed with a bituminous hot mix. REQUIREMENT: Gravel roads were established in 1942. These roads require

constant maintenance because of pot holes, soft spots, ruts, etc.

1.COMPONENT					1.DATE
!		FY 1391 MILITARY CO	MSTRUCTION	PROJECT DATA	•
ARMY-PBS					<u> </u>
C DESTABLATION A	ND LOCAT	ion.			
		•			
(Louisiana Art	iy Ammu	mition Plant, Louisi	ini		
4 PROJECT TITLE				5.7802827	MISER
			•		
Surface Roads	- Azea	1-3		4	233
11 REQUERE	Œ:T	(Continued)			
REQUIREMENT			•		
		d primarily by vehic	les haulin	g explosives, a	saietv
		ause of the dust, po			
1-		vehicles hauling exp			
		Gravel roads are u		icles hauling e	xplosives.
		stantly being graded			
		hauling vehicles ar			
hauling of ex					
	_	DED: EXCESSIVE ROA	D MAINTENA	NCE AND VEHICLE	MAINTENANCE
		. Vehicles hauling			
		to travel over roug			
		ter than on asphalt.			
		gher for the gravel			
surfaced road				TOULS SE EXPES	
1 "		onomic analysis Form	at 3 has h	een submitted	
MDD1110MM.	au se	onomic didiyata tota		een sabmitted.	
12. SUPPLEME	יו דבידואי	273.		•	
		Design Data:			
1	Statu	<del>-</del>			
(*/		Design Start Date			111# 88
ļ		Percent Complete As			
· ·		Percent Complete As			
	(a)	Design Complete Date			<u>Jec_j</u>
/ 7 \	Basis				
(2)			3	- 7 11-	
}		Standard or Definiti			_
1	(5)	Where Design Was Mos	t kecently	usec	
1	<b></b> 1	G (-) (-) (-)			
(3)	rotal	Cost (c) = $(a)+(b)$	or (d)+(e)		(\$000)
1		Production of Plans			
İ		All Other Design Cos			
		Total Cost			· · · · · · · · · · · · · · · · · · ·
		Contract			
1	(8)	In-house	• • • • • • • • •		· · · · · · · · · · · · · · · · · · ·
					1 27
(4)	Const	ruction Start	• • • • • • • • •		
					month & year
	-	associated with this	project w	nich will be pro	ovided from
other appropr	lation	. <b>S</b> :		<b>.</b> .	
_				Fiscal Year	
Equip		Procuring		Appropriated	Cost
Nomencla	ture	Appropriatio	<u>n</u>	Or Requested	<u> </u>
		None			

1. Component			2.DATE	
FY 13 <u>91</u> MILITARY CONSTRUCTS	CN PR	CUECT DATE	L .	
ARM:-283				7A)* 33
D.INSTALLATION AND LOCATION 4.PRO	JEST TI	77.2		
Lake Jity Army Ammunition Plant, Hissouri Rend	101117	ate Light:	ilad P <mark>r</mark> ot	427122
SUPPORAM SIZMENT 6 SATEGORY DOOR 7 PROJECT NO			T 2037 322	
		: 165		411
370	27724	23628		43.3
9.00ST ESTEMATES	;			
:79%	77.4	2UANTITY	INIT	2037 3033
*****			COST	\$0.00
Primary Facility	1 1			546
Rehab Lightning Protection	LS	-	'	1546
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	_11		·	
Subtotal				546
Contingency (10.00%)	} }		i }	55
Total Contract Cost	] ]		ľ	601
Supervision, Inspection & Overhead (5.50%)				33
Total Request		•		534
Total Request (Rounded)	1 1		'	530
Installed Equipment - Other Appropriations				3
runcation odathment Acuet Whiteherserans	+ 1			
10 Description of Processed Construction Rehabilitate the	· · · ·	ng 'h-n .	30 35359	c= : c =
systems on approximately 110 buildings and stru				
Rehabilitation to include but not be limited to				
the systems into compliance with AMC-R 385-100:		LUTTOWING	riems co	21-119
1) Provide 24 inch minimum height air term				
			0 :-	
2) Correct radii on ridge conductors and o	cier	conductors	to a line	cn
minimum.				
<ol> <li>Provide adequate quantity of down condu</li> </ol>				i
4) Provide proper connection of grounding	to ut	ility ent:	ances to	
buildings.				
<ol><li>Verify proper railroad bonding and ground</li></ol>				1
The project sites are protected from flood				
11. REQUIREMENT: 160,000 LF ADEQUATE: None				
PROJECT: This project will provide upgrade of	exis	ting light	ning pro	tection
systems and installation of additional systems	requi	red to mee	t the	!
specifications of AMC-R 385-100, Chapter 8, on				1
approximately 110 buildings and structures excl				ted
under Related Projects.			,	
REQUIREMENT: The design criteria for the major	rity	of the lie	theaing	
				i

1.COMPONENT	<del></del>	I. DATE
	FY 1991 MILITARY CONSTRUCTION PROJECT	
ARMY-935	1 4 4 2	JAN 39
3.INSTALLATION AND	D LUCATION	
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The state of the s		
A 2001207 PITE	Ammunition Plant, Missouri	ROUECT TORRER
9 7800 500 70104	3 /	And of the order
Renasilitata 1	.iscining ?rosection	37704
	NT_ (Continued)	
REQUEREMENT:	(Continued)	
protection sys	tems on plant is inadequate by current acce;	pted standards as
outlined in AM	C-R 385-100. Also most of the systems exceed	ed the 25 year
	and suffer from deterioration.	<u>-</u>
	NON: Approximately 1,100 additional manhou	urs annually are
	tain the obsolete systems such as replacemen	<del>-</del>
	its conductivity. However, major rehabilitat	•
•	ance with AMC-R 385-100. Waiver LC-E-2-71:	-
	htming protection deficiencies relative to	
	PROVIDED: If this project is not provided.	
1 .	erate outside the requirements of AMC-R 185-	
	the destruction of three (3) propellant store	
	ed to lightning since 1978. Without improves	
that the safet	ly of both personnel and property will be con	mpromised, and that
additional los	ses due to lightning can be expected.	
ADDITIONAL:	A 10 percent contingency factor is currently	y being used in
	th project preparation guidance since this project	
	ehabilitation work.	-
	tion for this project is not based on econor	mics, but rather on
	omply with safety regulations. However, some	
	in the form of reduced maintenance costs will	
	of this project.	r oe realized by
	n of this project. not a Specific Mobilization Requirement as th	ha liabania
	oject is safety related and will have no dire	ect erract on
production cap	•	İ
	ect is currently programmed as 5912700-31.	į
1	i costs are in FY91 inflated \$000.	Í
RLE: kah		1
Form No.	27734	!
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12. SUPPLEMEN	VTAL DATA:	j
A. Estim	sated Design Data:	ĺ
(1)	Status:	·
	(a) Design Start Date	
1	(b) Percent Complete As Of 01 January 90 (1	BDGT YR) 100
1	(c) Percent Complete As Of 01 October 90 ()	PROG YR) 100
ľ	(d) Design Complete Date	Nov 39
	,_,	
. (2)	Basis:	
\	(a) Standard or Definitive Design - Yes _	No
  -	(b) Where Design Was Most Recently Used	
ĺ	Int whate hearing was was wedgerty aged	<del></del>
, , ,	Manal Cash (a) = (a) = (3)	
(3)	Total Cost (c) = (a)+(b) or (d)+(e):	(\$000)
(	(a) Production of Plans and Specifications	·····
	DESITORS SPIRIOUS VEV 28 VERD CHRENCHILL	

1. COMPONENT		···	0.DATE
	Y 19 <u>91</u> MILITARY CONSTRU	TION PROJECT DATA	
12MY-985			
3. INSTALLATION AND LUCATIO	и		
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4. PROJECT CITES		5 F804E0T -	MBER
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12 SUPPLEMENTAL DAT	'A: Continued:		
A. Estimated De	sijn Data: (Continued)		
	Ost: (Continued)		( <b>5</b> 000)
	l Other Design Costs		
	tal Cost		
(d) Ca	ntract		
(e) In	-house		
(4) Constru	ction Start		
	•		month & year
	sociated with this proje	ect which will be pr	ovided from
other appropriations:			
		Fiscal Year	
Equipment	Procuring	Appropriated	Cost
Nomenclature	<u>Appropriation</u>	<u>Or Requested</u>	<u> </u>
	None		
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1. COMPONENT 2.DATE FY 1991 MILITARY CONSTRUCTION PROJECT DATA D INSTRUMENTION AND LOCATION 4.293UEST TITLE Lake Titu Armu Ammunition Flant, Middouri Tongarusa Storage Facil i .. t 3 37: ..... 13957 ).lost estimates TEX T/M L QUANTITY Primary Facility 148 11,200 13.17 148 Storage Building SE Supporting Facilities 345 Electric Service (50) LSI (17) Steam, Chilled Water & Heat Distribution LS Site Improvement LS (39) (139) Other 131 Subtotal 493 Contingency (10.00%) 49 Total Contract Cost 542 Supervision, Inspection & Overhead (5.50%) 30 Total Request 572 Total Request (Rounded) 570 Installed Equipment - Other Appropriations (2) 10 Description of Proposed Construction Construct a new 11,200 square foot warehouse for the storage of flammable liquids and corrosive liquids. The two products would be separated by a fire resistant wall. The new warehouse would have a foam fire protection sprinkler system and adequate containment in case of a spill of the flammable or corrosive liquids. The location of the facility would be east of Building 121G. The warehouse would also have heat, a restroom facility, lighting, safety shower, truck docks, access roads, outside security lighting, security fencing, lightning protection, railroad spur, and telephone service. 11. REQUIREMENT: 544,841 SF ADEQUATE: 533,641 SF SUBSTANDARD: None PROJECT: This subproject will provide separate storage facilities for flammable liquids and corrosive liquids in the Warehouse Building 121 Series area of LCAAP. REQUIREMENT: This project will correct safety and fire protection deficiencies caused by storing flammable liquids next to corrosive liquids in a warehouse. CURRENT SITUATION: The flammable liquids and corrosive liquids arcurrently being stored next to each other and in the same warehouse as combustible items.

1.COMPONENT			CLEATE
	FY 13 <u>91</u> MILITARY CONSTRU	CTION PROJECT DATA	
ARMY-PBS		•	78" 39
3. INSTAULATION AND COC.	ATION		
•			•
Cake City Army Amm	unition Plant, Missouri		
4.PROJECT TITLE		1 2201227 Fm	M257
1			
Construct Scorage	Facility	133	
1	,		<del></del>
11 REQUIREMENT	Continued:		
	<u> TDED:</u> The flammable liqu	ids and corrosive lis	nuida Vill
	ered next to each other and		
combustible items.			
} · · · · · · ·	project is currently prog	rammed in PSR Project	5915332 as
SP/LI 10-4.	. 250,000 20 0000000000000000000000000000	**************************************	. ,,,,,,,,
1	lization Requirement: This	neniace is readed to	s same of y FVDD
	ments and is needed to ins		
	ments and is needed to ins nobilization production s		, scorage
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Form No.: 289			
form No.: 407	7 <b>3</b> /		_
			1
12. SUPPLEMENTAL			
	l Design Data:		
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	Design Start Date		· · · · · · <del></del>
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	Percent Complete As Of 01		
( <b>d</b> )	Design Complete Date		<u>Oct 39</u>
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(2) Basi			
	Standard or Definitive De		<u> </u>
(Þ)	Where Design Was Most Rec	ently Used	
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1	il Cost (c) = $(a)^+(b)$ or $(d)$		's000'
<b>}</b>	Production of Plans and S	-	
(5)	All Other Design Costs		
(c)	Total Cost		<u></u>
(d)	Contract		
. (@)	In-house		· · · · · · <del> · · ·</del>
(4) Cons	struction Start		Apr 91
			month & year
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B. Equipment	associated with this proj	ect which will be pro	vided from
other appropriation	ns:		
		Fiscal Year	
Equipment	Procuring	Appropriated	Cost
Nomenclature	Appropriation	Or Requested	(5000)
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1. IOMPONENT			2.2ATE	
FY 1931 MILITARY CONST	RUCTION PR	OJECT DATE	A ·	
131/7-133				JAM 39
I. DISTABLATION AND EGGATION	- PROJECT TE	TLE		
Holaton Army Ammunition Plant, Tennessee	Repuise (1	37331139 a	Flisa	
S PROURAL SUCKERT & CATEGORY CODE (7 ) ABOUT	ger ymaen		T Mat IS	· ;
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1 73 711A 125		<del></del>	<del></del>	.30
7.1031 14.				
TEM	77 M	128%2113	:NIT 305T	105T 3000
Primary Facility	<b>†</b>		: !	4,342
Construct Bridge	LS	-	- !	(4,042)
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Subtotal	<del></del>		<del> </del>	4 242
	1 1		}	4,042
Contingency (5.00%)			}	202
Total Contract Cost	1 1		] ]	4,244
Supervision, Inspection & Overhead (5.50	) <b>%</b> )		] ]	233
Total Request	1 1		]	1,177
Total Request (Rounded)				4,500
			i ı	
Installed Equipment - Other Appropriation	ns			[320]
<u></u>				
1) Description of Proposed Construction Replace EXIST	ing bridge	over Hol.	ston Rive	r to
X-Magazine Explosives Storage Area.				i
11. REQUIREMENT: 1 ea ADEQUATE: None S	UBSTANDARD	: 1 ea		
PROJECT				
	34 65		0 <b>6</b> m 1	ì
FOCUS a. 2-lane road bridge, HS20 capacit				
a. 2-lane road bridge, HS20 capacity				
b. Approx. 400 ft 2-lane asphalt co	ncrete app	roach road	i on each	side of
river.				ì
c. Sentry (guard) building, 8 ft wid	e x 10 ft	long x 8	ft high n	ear
south end of bridge.			,	[
1			<b>.</b>	, _
d. A break-rest building, 12 ft wide			e urdu ar	cu mere
and female sanitary facilities, electricit				
e. 24 ft double swing gate at each e	and of brid	ge.		1
REQUIREMENT: The existing bridge was but			s and is	ina
continual state of deterioraton. The brid				
	•	•		
H-3.4 from e original H-15 and cannot su				
load of explosives (33.3 tons). This effe	ects shippi	ng and ha	ndling of	į

deferred deficiency item.

products and results in a potential for a serious incident. This is an IPP

1. COMPONENT			<u> </u>	CATE
		TY 19 <u>91</u> MILITARY CONSTRU	CTION PROJECT DATA	
75742-532		<del>_</del>		Jan 99
I. INSTALLATION AND	ב בטכאד:	2.4		
Holston Army A	<u> </u>	ion Plant, Tennessee	<u></u>	
4 3900ECT 71712			120,000	12.27
Replace Magazi	.59 371	idge	<u> </u>	22
2207772242				
		A study states that 'to		
		ditional repair will be		
		the pressure-treated tim		
		0's. Shipments must be		t priade
		ighway gross weight allo		
IMPACT IS NOT	<u> </u>	ED: The bridge will come unsafe for any traffic	ntinue capacity downs:	rading to a
		rror which could result		
		apacity resulting in los		
of life.	.Luge c	abacity resulting in los	e of broberty and bost	ential 1055
		s an M+O requirement nee	ded as Medays	
		ency form 313-R has been		
		ficiency form 319-R has		am am twodow
		on Code has not been ass		
		inclusion with this OD1		
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12. SUPPLEMEN	TAL DA	.TA.		
		esign Data:		
	Status	- •		
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		ercent Complete As Of 01		
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		esign Complete Date		
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(2)				
		tandard or Definitive De		
	(b) W	here Design Was Most Rec	ently Used <u>UNK</u>	<del></del>
(3)	Total	. Cost (c) = (a)+(b) or (d)	1>=(=>	(\$000)
(3)		roduction of Plans and S		
		ll Other Design Costs		
		otal Cost		
•		Contract		
1		n-house		
	(4) 1	n-nouse		<u>50</u>
(4)	Constr	uction Start		Mar 91
				month & year
9 F		accesses and additional to the contract of the		
S. Equipother appropri		ssociated with this proj	ect agree arry be brow	/ided irom
ocuer appropri		•	Fiscal Year	
Equipme	nt	Procuring	Appropriated	Cost
Nomenclat		Appropriation	Or Requested	150001
		None	or add a d c c c c c c c c c c c c c c c c	

L. COMPONENT I. JATE FY 1991 MILITARY CONSTRUCTION PROJECT DATA U DESTRUCATION AND LOCATION # PROJECT TITLE <u> 18ton Army Ammubition Plant, Tennessee - Modernize Steam Headers</u> \* 301/20T - 74**30**R - 100000000 4 PROJECT TOUT 1910 1..50 ، د ح 100500 BESTANTES TROS ITEM 3057 TIME DUANTITY Primary Facility 1,363 Equipment Renap LSI (1,363 Subtotal 1,863 Contingency (5.00%) 93 Total Contract Cost 1,956 Supervision, Inspection & Overhead (5.50%) 108 2,364 Total Request Total Request (Rounded) 2,050 Installed Equipment - Other Appropriations :113 .) Description of Proposed Construction The following is a break down of the work for the steam headers on production Lines 9 thru 10. The Corps of Engineer portion is indicated by 'CE'. 1. (CE) Perform testing of the 3 and 10 inch sections of the steam headers (upper line and lower line) by an independent agency to determine suitability for rause. 2. (CE) Replace sections or all of the headers as required as a result of the testing. 3. Replace supports, traps and valves as necessary due to deterioration. (CE) 4. Insulate the headers after replacement of lines, supports, traps and valves. Demolish/rehabilitate the collateral air lines. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None PROJECT: The purpose of this project is to rehabilitate the 8 and 10 inch east-west steam header facilities in Lines 9 and 10 and the 3 inch north-south steam header on Lines 9 and 10 to assure operability in the event of

mobilization or high production requirements. Also, minor air line demolition/rehabilitation has been added to the scope of work.

1. COMPONENT	CLOATE
	FY 1991 MILITARY CONSTRUCTION PROJECT DATA
13242-583	73.1.33
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	nicion Plant, Jennessee
4 Sacrifica Lights	. 1 AAJUSST 1 388
: <u>planning Etaan</u>	Seadard 10807
<u> </u>	Continued
<u> secúlument</u> :	place/renabilitate the existing deteriorated 3 and 11 inch
	ttn-south steam headers serving lines 3 and 13. Replace
	and valves as required. Insulate the steam headers after the
	e deteriorated meaders have been completed.
Modernizati	on of the steam headers is essential to provide capability to
	and 10 for proveout and full production. These production
	ed for modernization under projects 5873000A and 5913000B.
	set mobilization and modernization requirements will not be
attainable with	
	The 10 inch east-west main steam header serving the
	Lines 9 and 10 and the 3 inch north-south header serving the
	tacke lines will be required for prove-out and future
•	modernized lines 9 and 10. Portions of the lines have
	require rehabilitation or replacement. In addition, steam
line supports, t	raps and valves will require replacement.
	VIDED: The capability of lines 9 and 10 to meet
	mobilization production requirements will not be realized.
	facilities cannot be completed. The industrial readiness
	scilities will not be improved. As is, the steam headers are
	result in injury to personnel, equipment, and facilities.
	s is a Group T Mobilization project.  not have a significant impact on the
	will not have a significant impact on the environment. An
	essment will be prepared and submitted at a later date title plan will be submitted if required, novever, no change to
	e placement is anticipated.
	e placement is anticipated.  description of steam lines to be modernized will be submitted.
	in accordance with guidance from the Modernization Agency
	: 2-15 will be submitted.
n rad suuge	. Fil will de debuttered.
12. SUPPLEMENTA	. DATA
	nd Design Data:
	itus:
(2)	
`	Percent Complete As Of 01 January 90 (BDGT YR) 100
,	Percent Complete As Of 01 October 90 (PROG YR) 130
(6	
,	
(2) Ba	is:
( a	Standard or Definitive Design - Yes No _X
(1	Where Design Was Most Recently Used HOLSTON AAP
	(a) Cost (c) = (a)+(b) or (d)+(e). (5000)
( a	Production of Plans and Specifications

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PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

PAGE NO. 27

1 JOHPONENT			. DATS
	r 19 <u>91</u> Military Construc	TION PROJECT DATA	;
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10SUPPLEMENTAL_DAT	A_ Continued		
A. Estimated Ce.	sign Data. (Continued)		
13) Total C	ost:  Continued:		^ <b>5</b> 000 ) *
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	tal Cost'		
	ntract		
(e) Ia-	-house	• • • • • • • • • • • • • • • • • • • •	53
(1) 6	anian Cham		100 2'
(4) Constru	ction Start		month & year
			Touch & Year
3. Equipment as	sociated with this proje	ect which will be pro-	vided from
other appropriations			1
		Fiscal Year	
<b>Equipment</b>	Procuring	Appropriated	Cost
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PAGE NO. 28	UNTIL EXHAUSTE		) 1 osc . 1391C

1.COMPONENT			1.CATE	
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Primary Facility				413
METROLOGY LABORATORY	!	-	-	413
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Subtotal	( )		1	418
Contingency (5.00%)			, ,	21
Total Contract Cost	1 1		1	439
Supervision, Inspection & Overhead (5.50%)			1	<u> 24</u>
Total Request	! !		;	463
Total Request (Rounded)	1			∳ଚ୍ଚି
Installed Equipment - Other Appropriations				
1) Description of Proposed Construction THE PRIMARY FAC	ILITY IS	PERMANEN	I METAL A	:::5
REINFORCED CONCRETE CONSTRUCTION. THE WORK	IS NEW C	ONSTRUCTI	ON TO REP	LACE AN
EXISTING STRUCTURE BUILT IN THE EARLY 1940'S	. THE S	TRUCTURE	IS A	
NONCOMBUSTIBLE STRUCTURE TO SERVE AS A METRO	LOGY (SC	IENCE OF	WEIGHTS A	ND
MEASURES) LABORATORY, CONSTRUCTED TO EXACTIN	G REOUIR	EMENTS IH	AT WILL H	CUSE
· ·	-	ILL ALSO		
VAULT FOR THE STORAGE OF WEAPONS USED IN THI				
THE NEW FACILITY WILL ALSO HAVE AN ENVIRONEN				
TO HOUSE HIGHLY SENSITIVE EQUIPMENT. THE PR		•		
UTILITIES SERVICE, COMMUNICATIONS, FIRE PROT				-
STORM DRAINAGE AND SITE IMPROVEMENTS. WORK				
				VE A
3100 SF WOOD FRAME STORAGE BUILDING. NOT SI		ב ביייים ב	M+41 .	
ACCESSIBILITY FOR HANDICAPPED WILL BE PROVID			100 55	
11. REQUIREMENT: 4,100 SF ADEQUATE: None				
PROJECT: CONSTRUCTION OF A 4100 SF FACILIT	Y THAT W	ILL SERVE	as a met	ROLOGY
LABORATORY				
REQUIREMENT: THIS PROJECT IS REQUIRED TO P				,
EQUIPMENT NEED TO CHECK AND CERTIFY GAUGES A	ND TOOLE	NG USED I	N THE LAP	OF .
QUALITY PRODUCTS FOR THE US ARMY, EXISTING	Laborato	RY DOES N	I EVAR TO	ME SPACE
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1 SOMPONENT			<del></del>	.0872
		FY 1331 MILITARY CONSTRUCT	ION PROJECT DATA	
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Milian Army Am	<u> </u>	ion Plant. Tennesdee	- 1003377 19	
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i Drimma' and			230	<u>.</u> 1
Washolpan Tro	91113	<del></del>	\$ 2.7	3 <b>7</b>
برج جارد ع جارد	مسامت	Continued:		
REQUERENT			•	
		EEDED EQUIPMENT THAT WILL IN	CREASE THE ACCURACY	, EFFICIENCY
4		THE METORLOGY SECTION.		
CURRENT SITUA	TION:	CURRENTLY THE METROLOGY L	ABORATORY IS HOUSED	IN A
FACILITY THAT	IS T	CO SMALL TO PROVIDE THE REQU	TRED WORK AND STORA	GE SPACE FOR
PRESENT AND F	UTURE	NEEDS. NEW AND MORE SENSIT	IVE EQUIPMENT IS NE	EDED TO MEET
THE EVER INCR	easin	G REQUIREMENT FOR A MORE EFF	ICIENT QUALITY ASSU	RANCE
PROGRAM. BEC	AUSE	OF THE SPACE LIMITATION THE	LAB IS CNLY ABLE TO	MEET THE
MINIMUM ESSEN	TIAL	METROLOGY ENVIRONMENTAL STAN	<del>-</del>	
IMPACT IF NOT				
		FACILITY THAT SERIOUSLY LIM	ITS THE CAPABILITIE	S OF THE
METROLOGY LAB	CRATO	RY.		
		21.01		
12. SUPPLEME		<u>DATA:</u> Design Data:		
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1		Design Start Date		Feb 38
		Percent Complete As Of 01 J		
	(6)	Percent Complete As Of 01 0	ctober 90 (PROG YR)	100
Ì	(d)	Design Complete Date		May 89
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(2)	<b>Basi</b>	<b>s</b> :		
Ì		Standard or Definitive Desi		
}	(c)	Where Design Was Most Recen	tly Used	<del></del>
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(3)		1 Cost (c) = $(a)^{-}(b)$ or $(d)^{-}$		(\$000)
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		All Other Design Costs Total Cost		
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	(3)	<u> </u>		
(4)	Cons	truction Start		Mar 91
}		•		month & year
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B. Equi	pment	associated with this projec	t which will be pro-	vided from
other appropr	iatio	ns:	_	
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Equipm		Procuring	Appropriated	Cost
Nomencla	ture	<u>Appropriation</u>	Or Requested	(\$000)
1		None		
1.				
}		•		
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1. COMPONENT			1. DATE
FY	19 <u>91</u> MILITARY	CONSTRUCTION PROJECT DATA	
<u> </u>			7AM 88
1. INSTALLATION AND LOCATION		ALPROJECT TITLE	
!			
lone Star Army Ammunut.	ion Plant, Jax	as 3/Totechnic Producti	<b>.</b>

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construct a building for pyrotechnic production, sized to house technologically advanced pyrotechnic mixing, granulating, and drying (MIGRAD) and support systems. Functional requirements include 1, interim storage of pyrotechnic raw materials, 2) pre-formulation preparation of raw materials, 3) weighing of raw materials, 4) processing of pyrotechnic materials (MIGRAD process), 5) screening and remote material handling of pyrotechnic mixture, 6) inert storage capability, 7) interim storage of pyrotechnic mixtures, 8) maintenance activity, 9) office facilities, and 10) restroom facilities.

The building will be integrated into an existing production line. Site work will include demolition of an existing black powder storage magazine and improvements to an existing Class F road. Parking areas, a service/access road to the rear of the MIGRAD facility, and interconnecting ramps between the MIGRAD building and other buildings shall be constructed. An earthen barricade shall be constructed to reduce intra-line separation between existing buildings and the MIGRAD facility.

The building will be constructed with reinforced concrete slab on grade with conductive topping. Substantial dividing walls shall be constructed around rooms which process Class 1.1 pyrotechnic material. Walls separating

5.2903Ran 3130217

1. ISMPONENT 2.2825 FY 1991 MILITARY CONSTRUCTION PROJECT DATA CONSTRUCTOR OF CUCATION <u> Kampi kamunitian Bukon,</u> ¥ 2937537 75752 s partioner integra grasecopia Procestica Jost Estimates (Continued) Cait Cost <u> 15an</u> U/M Quanti Dary Faci Lity (Continued) INTERIOR IND./POTABLE WATER DIST SANITARY SEWER W/FLOOR DRAIN LS 3 HAZARDOUS WASTE COLL./TREATMENT LS Total DESCRIPTION OF PROPOSED CONSTRUCTION: (Continued) rooms where fuels, oxidizers, and flammable materials are stored/processed shall be of fire resistant construction. Fire protection systems shall be included. A sprinkler system shall be installed for general building protection with a Halon system provided for the control room. Fire water supply shall be provided for user installed high speed deluge system (for equipment and personnel protection) Utility construction will include installation of primary electrical service, compressed air and steam distribution from existing beaders, potable water and fire water supply from existing mains, and construction of a new sanitary sewer from the MIGRAD facility to the existing sanitary sewer. Waste water collection troughs in each of the remote processing bays will collect bay washdown contaminated water. Troughs to be connected to stainless steel collection/pre-treatment tanks located outside the building. A pump and piping system will be installed to allow pumping of waste water to the existing waste water treatment plant. A HVAC system with temperature and humidity control shall be installed for all areas in the building where pyrotechnic materials are stored and processed. 100% makeup air is required. Self-contained A/C inits shall be provided for areas such as offices and control room. The heating source will be the existing Plant Steam System. Exhaust vents are required for rooms in which pyrotechnic material is stored or processed. Ventilation is also required for the Mechanical Room and the Restrooms. 11. REQUIREMENT: 10,328 SF ADEQUATE: None SUBSTANDARD: None <u>PROJECT:</u> This project will enhance personnel safety by providing facilities to house technologically advanced pyrotechnic mixing, granulating, and drying (MIGRAD) equipment. REQUIREMENT: Additional facilities are required in order to house the MIGRAD equipment. There are no existing facilities available at the site which can be utilized. Existing pyrotechnic buildings cannot be used for two (2) primary reasons: 1) Existing buildings house mix-muller processing equipment which must be retained for the manufacture of those pyromixtures which cannot be manufactured in the MIGRAD, 2) Use of existing buildings for the MIGRAD operations would violate current safety regulations for Class 1.1 explosives

CURRENT SITUATION: Using current methods, the production of a typical 30 pound batch quantity of pyrotechnic mixture require that the operator be

1.COMPONENT				CATE
		LA 1937 MITIGINA CONSISAC	TION PROJECT DATA	•
757X-532				
3. INSTALLATION A	1333	ATION		
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4 PROJECT TITLE			5. PROJECT COM	357
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Pritotacaala P	reque	1138	1961	<del>:</del>
 		:Coentenad:		
CURRENT SITUA				
		us material approximately s	firmer (50) minds ham i	natch 3v
		he MIGRAD process coupled w		
		the operator to be exposed		
one (1) time				
		IDED: If this project is	not approved, the MIC	RAD Systems
		ted and operator exposure o		
cannot be red		•	••	
ADDITIONAL:	All	appropriate measures will b	e taken to ensure the	it the
		er is protected within all		
		project has been reviewed		
with the inte	nt of	PL 39-565 and Executive Or	der 11593. This pro:	ect has been
		s been determined that an E	nvironmental Impact	tatement
persuant to ?	L 91-	190 is not required.		
1.				
12. SUPPLIME			•	
		Design Data:		
(1)	Stat			Jul 88
	(a)	Design Start Date Percent Complete As Of 01	7 60 (BDCT 37)	
	(5)	Percent Complete As Of 01	October 80 (SECT 18)	100
	(d)	Design Complete Date	occoper so (raog ra)	Nov 39
	(-/			· · · · · · <del>· · · · · · · · · · · · · </del>
(2)	Basi	<b>s</b> :		
}	(a)	Standard or Definitive Des	ign - Yes _ No	
}		Where Design Was Most Rece		
		-		
(3)		1 Cost (c) = (a)+(b) or (d)		(\$300)
		Production of Plans and Sp		
4	(b)	All Other Design Costs		
ļ	• ,	Total Cost	· · · · · · · · · · · · · · · · · · ·	
k .	(d)	Contract		
	( <b>a</b> )	In-house		• • • • • • • • • • • • • • • • • • • •
				lan 01
(4)	Cons	truction Start	• • • • • • • • • • • • • • • • • • • •	Apr 91
1	•			month & year
B. Equi	7867°	associated with this proje	or which will be seen	rided from
other appropr			or within all ne blow	TOGG TYOM
appropr		<del></del>	Fiscal Year	
Equipm	ent	Procuring	Appropriated	Cost
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		None		<del></del>
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PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1. COMPONENT			2.DATE	
FY 1991 MILITARY CONSTRUCTI	CM PS	ROJECT DATA	. :	
75543-582				JAN 33
3. INSTALLATION AND LUCATION +.PROJ	ECT :	itle		
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S PARCURAM SLEMENT PLUMESON ( 1908 THAN SOT HE			1057	<del> </del>
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Primary Facility	1 1			347
CONSTRUCT FIRE STATION	SF	6,688	51.91	(347)
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<u></u>	4			· · · · · · · · · · · · · · · · · · ·
Supporting Facilities				207
SUPPORT FACILITIES	LS		-	(207)
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2014 1	+			<del></del>
Subtotal				554
Contingency (10.00%)		•		55
Total Contract Cost	1 1			609
Supervision, Inspection & Overhead (5.50%)				34
Total Request ,				643
Total Request (Rounded)				540
Installed Equipment - Other Appropriations		1		(0)
	!!!	·	į	
13 Description of Proposed Construction Construct new fire	stat	ion in acc	ordance	with
U.S. Army Corps of Engineers standards. The d				-
modified standard floor plan. The floor plan w	-			
company headquarters" apparatus room but only "	one (	combana use	edarter	2
administrative and dormitory space.				<del></del>
		- •	131 SF	
PROJECT: A safe, economical, and functional f		station is	redrited	which
complies with the Department of Army standards.			•	
REQUIREMENT: The existing fire station, build	ing :	709A, was c	construct	ed in
1942 with major modifications performed in the				
additional space for personnel and equipment.	Since	then impr	covements	have
been minimal. A new facility is required to me				
standards.		-	•	
CURRENT SITUATION: See Requirement paragraph	above		•	
Annual Apparentation and wedges emerge has added to				
TURN THE NOR REQUIRED.	<b>.</b>			
IMPACT IF NOT PROVIDED: If this project is no				
facility will continue to deteriorate, resulting				
operating costs. Fire fighters and emergency p	erso:	nnel will d	continue	to use
substandard facilities.				

ETUST FIFE  REQUESTED A  REGUEST	Station  Station  Station  Sontin  Sconomic  nativeswere e feasible  AL DATA: ted Design	nued) Analysis is not not examined in devel	CTION PROJECT DATA	16
TABLETION AND TOTAL SITE  PETUT SITE  PETU	Station  Tontin n Economic nativeswere e feasible.  AL DATA: ted Design	ued) Analysis is not no examined in deve	ecessary for this proje	277 16 201. All
TOTAL A  SUPPLEMENT  A. Estina  (1) S	Station  Tontin n Economic nativeswere e feasible.  AL DATA: ted Design	ued) Analysis is not no examined in deve	ecessary for this proje	16
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ntial alter found to b  SUPPLEMENT A. Estima (1) S	nativeswere e feasible. <u>AL DATA:</u> ted Design	e examined in deve		
SUPPLEMENT  A. Estima  (1) S	e feasible. <u>AL DATA:</u> ted Design		Lopment of the project	and none
SUPPLEMENT A. Estima (1) S	AL DATA: ted Design			
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A. Estima (1) S	ted Design			
(1) S	,			
	tatus:	Jaca:		
		Start Date		Nev
			L January 90 (BDGT YR)	
			L October 90 (PROG YR)	
į	d) Design	Complete Date		AUS
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, - , -	asis:			
			esign - Yes No	
(	b) Where D	Design Was Most Red	ently Used	<del> </del>
			<b>3</b>	. • •
		(c) = (a)+(b) or (c	1)+(e): Specifications	( \$ 0
,	h) all Oth	ton of Plans and :	specificacions	• • • • • • • • • • • • • • • • • • • •
,	c) Total C	ost	· • • • • • • • • • • • • • • • • • • •	· · · · · · . ——
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(4) C	onstruction	Start		Mar
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a Fauine			ject which will be prov	
appropria r		iced with this pro-	lece which will be blow	rided ifom
- abbrahrra			Fiscal Year	
Equipmen	t .	Procuring	Appropriated	Cost
Equipmen Nomenclatu		Procuring Appropriation	Appropriated Or Requested	Cost (\$000)

1.COMPONENT			2.DATE	
FY 19 <u>91</u> LILITARY CO	NSTRUCTION PR	CUECT DATA		731 <u>2</u> 39
I LISTALLATION AND LOCATION	+.PROJECT 7:	TLE		
Longnorn Army Armunision Plant, Taxas	200018000	is Baiash	Ennancar	
S RECORDANCE LEMENT OF LATEROPY CODE	ROUBET JUMBER			
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₹ . 103T	estimates	<del></del>		
: <u>~</u> 54	©/ <b>%</b>	STANTITY	2017 2017	308 <b>T</b> \$08 <b>0</b> )
Primary Facility		<del> </del>	·	336
MIGRAD Mixer Facility	SE	4,400	130.00	(336
		i	:	
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	1 1	į	-	
•	[ [	1		
Supporting Facilities Electric Service	LS	_	_ ;	282
Water, Sewer & Gas	LS	_		(51
Steam, Chilled Water & Heat Distribut	11	_	_ :	(125
Paving, Walks, Curbs & Gutters	LS	_	_	: 35
Information Systems	LS	_	_	
THISTMECTON DARCEMS	-3	1	i	,
	1			
			1	
Subtotal		l		1,118
Contingency (5.00%)		}		56
Total Contract Cost	} }	}		1,174
Supervision, Inspection & Overhead (5	.50%)	ł	l_	65
Total Request		ļ	i	1,239
Total Request (Rounded)	1 1	. 1	1	1,250
Installed Equipment - Other Appropria	tions			( 2 )

This project is to construct a MIGRAD MIKER. GRAnulator, Dryer) mixing facility. The facility will house new technology mixers which are being developed/evaluated by Pine Bluff Arsenal per MMT Project 582/31709. Use of the MIGRAD mixer will eliminate hazardous traying, drying, and granulating operations. There are no suitable existing facilities at Longhorn AAP to house these mixers. The MIGRAD mixers require more head room than is provided in existing facilities. Alteration of existing facilities has been disallowed since new construction to raise the roof would not be in compliance with AMC-R 385-100 dated 1 August 1985 requirements.

The operations area of the new mix facility will have two mixer bays, four raw material surge bays, two finished mix surge bays, passageways, an inert cart and blender bucket conditioning area and a loading dock. The operations area of the facility is approximately 4400 sq ft. Wall design of the mixer and surge bays is to be in accordance with TM 5-1300. Requirements and arrangement of restroom facilities, equipment rooms, fire protection deluge valve room, etc is to be determined by the Design Agency. The facility is located within an existing pyrotechnic production facility. Connection to existing utility systems and provision of access roads and equipment pads for installation of AMC equipment is included in this project.

1.COMPONENT CLOATS

FY 13<u>21 MILITARY CONSTRUCTION PROJECT DATA

ARMY-783

INSTALLATION AND LOGATION

1. INSTALLATION AND LOGATION</u>

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## 10: DESCRIPTION OF PROPOSED CONSTRUCTION: (Continued)

RESEARCH PLANTS (Testas)

Temperature and dumidity conditioning is to be provided in the mixer and surge bays and heating and cooling are to be provided in other operational areas for comfort conditioning. Conditioning of mix and surge areas for a relative numidity of 50-55% at 68 to 78 degrees F is required to reduce processing hazards.

A waste collection trench and sump are to be furnished to collect washdown products and contain any potential spill. Restroom facilities for male and female operators will be needed. Connection to existing electrical, steam, compressed air, telephone, potable water, fire water and sewer lines will be required. These utilities are in near proximity to the proposed facility.

Equipment pads and access roads are needed for installation and maintenance of AMC process support equipment. Two pads with access roads are needed. The pads should be 30 ft by 40 ft. They should be of concrete or other suitable material to provide all weather access.

11. REQUIREMENT: 4,400 SF ADEQUATE: None SUBSTANDARD: None
PROJECT: Safety needs to be improved by reducing personnel exposure to
hazardous operations and materials. This can be accomplished by use of the
new technology MIGRAD mixers to eliminate certain manual traying, drying, and
granulation processes.

REQUIREMENT: This project is needed to provide processing improvements which will enhance safety. Numerous flashes have occurred at this, and other, pyrotechnics producing plants. These flashes have resulted in injuries, fatalities, equipment and facility damage, lost production time and increased item cost.

CURRENT SITUATION: Pyrotechnic compositions are being produced using processes and equipment which are of World War II vintage. These processes often require mixing and multiple drying and granulating steps. These operations require excessive operator exposure to energetic and unpredictable materials.

IMPACT IF NOT PROVIDED: Employee exposure to hazardous materials and operations would remain at the current high levels. The benefits to be derived from the pacing MMST development work would not be implemented.

ADDITIONAL: A Format 3 economic analysis has been prepared for this project and is included in this document.

The status quo is not an acceptable alternative. It requires too much operator exposure to sensitive materials and operations.

## 12. SUPPLEMENTAL DATA:

- A. Estimated Design Data:
  - (1) Status:

(a)	Design Start Date		Aug 38
(b)	Percent Complete As	Of 01 January 90 (BDGT YR)	100
(C)	Percent Complete As	Of 01 October 90 (PROG YR)	100

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PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

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2	ביים דאיל זכפייי		QATA: Continued:		
			i Design Data: (Continued)		
			rus: (Continued) .		
	, -,		Design Complete Date		Nov 39
			•		
	(2)	Basi	<b>.s</b> :		
		(a)	Standard or Definitive Des	ışn - Yes No	
		( <b>b</b> )	Where Design Was Most Rece	ntly Used	<del></del>
	(3)		iL Cost (c) = (a)+(b) or (d)		(\$000)
			Production of Plans and Sp		
			All Other Design Costs		
			Total Cost		
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	Equips		Procuring	Appropriated	Cost
	Momencla	ture	<del></del>	Or Requested	(5000)
			None		
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			None .		
			None .		
			None .		
			None .		
			None		

1. COMPONENT	2.242	5
FY 1991 MILITARY CO	NSTRUCTION PROJECT DATA	
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	, 7/11 TOST	5:::
Primary Facility	i   1	0.55, α⊷
Steam Plant		122,797)
Electrical Distribution Systems	(LS)	2,378
Water Distribution and Sewage	LSI	12,556
Site Preparation	LS	3,309
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		1
Subtotal		46,550
Contingency (10.00%)	1 1	4,655
Total Contract Cost		31,_05
Supervision, Inspection & Overhead (	.50%)	2,316
Total Request		
Total Request (Rounded)		
Installed Equipment - Other Appropris	tions	
• • •	, ,	- 1

- (a) Site Preparation
- (b) Electrical Distribution System
- (c) Water and Sewage Distribution System
- (d) Centralized Steam Plant

11. REQUIREMENT: 1,445,000 LS ADEQUATE: 317,000 LS SUBSTANDARD: 300,000 LS PROJECT: Capacity to produce 500,000 lbs/mo of HMX and its associated final products.

REQUIREMENT: To provide timely facilities to meet future HMX requirements.

CURRENT SITUATION: Current production facility cannot meet future HMX requirements.

INPACT IF NOT PROVIDED: If this project is not funded, the Army would be unable to meet its future HMX requirements. In addition, this country would have to continue relying of on Holston AAP as its only source of HMX, thus bearing the risk of production loss through a single act of sabotage or major industrial accident.

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PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

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I: 19 4.67   17 1/07	PROVIDED: Continued:	•	
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	DUTAL DATA:		
	mated Design Data:		
(1)	Status:		
		As Of 31 January 90 (BDGT )	
i I	· ·	As Of 01 October 30 (PROG )	
	(d) Design Complete D	ata	. <u>Das 91</u>
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(2)	Basis:		_
	a: Standard or Della	itive Design - Yes :	·
	(D) where Design was	Most Recently Used	<del></del>
(3)	Total Cost (c) = (a)+(	ba, mana /ali/m.)	; \$0001
( )		ns and Specifications	
	(b) All Other Design	Costs	• • • • • • • • • • • • • • • • • • • •
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(4)	Construction Start		Apr 32
			month & Year
			-
3 Equ:	pment associated with t	nis project which will be ;	provided from
orver sbbrobs	lations:		
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Equipo	ment Procuri	ng Appropriated	Cost
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	None		
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PAGE NO. 40		NS MAY BE USED INTERNALLY	DD 1 7082 . 1391C
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TA 1337 WITINGS CONCING	CTION PRO	JECT DATA				
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<u>ALLÉSER AFRY ENTRESERVE SIGNES (1991) I PROJES</u>	#21414 .   1011883	<u> </u>	<u> </u>	·		
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Subtotal	1 1	l	1	1,305		
Contingency (10.00%)	1 1		-	<u>101</u>		
Total Contract Cost	1 1		ļ.	1,106		
Supervision, Inspection & Overhead (5.50%)	1 1		i_	51		
Total Request	! !		_	1, 57		
Total Request (Rounded)			,	1.15:		
Installed Equipment - Other Appropriations						
- Inscarrag Edgibment - Ocuer Whitohtlacious				•		
.) Description of Proposed Construction Complete V ramo	<del></del>			<del> </del>		
Compresse; came						
five active propellant operating buildings			<u>.30d plair</u>	<u> </u>		
11. REQUIREMENT: None ADEQUATE: None SU				!		
PROJECT: Replace one multi-story and four	single-s	tory doubl	e revette	id (		
wooden, earth filled barricades with one mul	ti-story	and four	single-st	ory		
barricades. The project must remove and rei						
and ductwork passing through or attached to						
and roofs through the barricade portals are						
<del>-</del>		•				
escape chutes and support framing are to be						
is to be diverted away from the barricade fo						
lighting and wiring to meet the latest codes						
1940's open wiring and nonconforming electrical at all the facilities at RAAP						
at one time, it has previously been decided	to corre	ct the cor	ditions w	rhen		
major work is performed on individual buildi						
barricades corrects the majority of the requ	•	•				
			1	[		
REQUIREMENT: This project is the twelfth phase of an annual replacement						
program for the barricades at this plant which were erected in the 1940-41						
period. Fifty-four barricades in Phase 1 (FY-30) through Phase VII (FY-36)						
have been completed. Thirteen parricades ar	e being .	replaced i	a FY-87 a	ind		
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ASMY-898 731 INSTALLATION AND LOCATION  ASSOCIATE ARMUNICATION PLANT, /LETIDIA  POUROT TITLE 1 APOURT 1/869  ADLAGE Turne Barrigades 19595	3.9
adford Army Ammunition Flant, Firstnia Provent troid  eplace Fire Sarriosdes  19595	
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equage Fune Barridades 19595	
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<u>। अञ्चलपात्रमाकाल</u> (Constinued)	
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<u>್ಷ ಸತ್ತಿಸಿದ್ದರು, ಅಭಿಕರ್</u> ಕಿಸಿದ್ದರು	
TOUTRIMENT (Continued)	
Y-38. Repairs to many of these barricades have become excessive and cal	
eep up with the rate of deterioration, and the structural integrity can	sot be
ussured.	
URRING SITUATION: 240 barricades are required at this plant to meet	
current production schedules and for mobilization. A portion of these co	
maintained for the next 20 years. The remaining ones must be replaced be	acause
of decaying of the major structural components. A replacement program ha	3.5
peen started to renew the barricades at these buildings, a few each year	,
beginning with the ones that are in greatest need of replacement.	
WPACT IF NOT PROVIDED: Without adequate barricades, RAAP could not	
continue to operate within existing intraline quantity distances	
2 SUPPLEMENTAL DATA:	
A. Estimated Design Data:	
(1) Status:	
(a) Design Start Date	.ug 39
(b) Percent Complete As Of 01 January 90 (BDGT YR)	100
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	ec 89
_	
(2) Sasis:	
(a) Standard or Definitive Design - Yes No	
(b) Where Design Was Most Recently Used	
(3) Total Cost (c) = (a) - (b) or (d) - (e)	(5000)
(a) Production of Plans and Specifications	
(b) All Other Design Costs	
(c) Total Cost	
(d) Contract	
(e) In-house	
(4) Construction Start A	pr 91
<del></del>	year
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B. Equipment associated with this project which will be provided for	
B. Equipment associated with this project which will be provided for	
B. Equipment associated with this project which will be provided for their appropriations:	
B. Equipment associated with this project which will be provided for their appropriations:  Fiscal Year  Equipment Procuring Appropriated Cost	<b>.</b>
B. Equipment associated with this project which will be provided frother appropriations:  Fiscal Year  Equipment Procuring Appropriated Cost	<b>.</b>
B. Equipment associated with this project which will be provided frother appropriations:  Fiscal Year  Equipment Procuring Appropriated Cost  Nomenclature Appropriation Or Requested (5000)	<b>.</b>
B. Equipment associated with this project which will be provided for their appropriations:  Fiscal Year  Equipment Procuring Appropriated Cost  Nomenclature Appropriation Or Requested (5000)	<b>.</b>
B. Equipment associated with this project which will be provided for their appropriations:  Fiscal Year  Equipment Procuring Appropriated Cost  Nomenclature Appropriation Or Requested (5000)	<b>.</b>

1. COMPONENT			2.CATE			
FY 19 <u>91</u> MILITARY CONSTRUCTION	בק אכ	KOJECI DAI.	\$			
ARMY-98S			· · . · . · . · . · . · . · . · . ·	7922 19		
1. INSTAULATION AND LUCATION	207 7	1718				
Radiora Army Ammunition Plant Virginia - Fuel						
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Primary Facility	,	<del></del>		7 5 7		
Fuel Storage and Dispensing Stat	Ls	_	_	:157		
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Subtotal	1 (		(	767		
Contingency (10.00%)	1 1		{ }	77		
Total Contract Cost	1 1		1 1	844		
Supervision, Inspection & Overhead (5.50%) Total Request	1 1			<u>46</u>		
Total Request (Rounded)	!		: '	390		
Installed Equipment - Other Appropriations	1			3.5		
Tungatta ndariment Acuat Whitehers	1. 1					
13.Description of Proposed Construction Provide facilities	for	bulk stor	age and			
dispensing of diesel and gasoline fuels. Major				work,		
utilities, installation of underground tanks, p				i		
dispensing units, installation of dispensing pu						
prefabricated metal storage building, piping for	r sto	rm draina	ge, insta	llation		
of oil-water separator, paving, and area lighti	ng.	·				
			9,700 sf			
<u>PROJECT:</u> Provide facilities for bulk storage						
gasoline fuels. Major items to include site work, utilities, installation of						
underground tanks, piping from storage to dispensing units, installation of						
dispensing pumps, construction of prefabricated metal storage building, piping						
for storm drainage, installation of oil-water separator, paving, and area						
lighting.						
TOTAL REQUIREMENT:						
1. 25,000 gallons of diesel fuel storage capa ity.						
40,000 gallons of gasoline storage capacity.     3. 28,000 square feet of paved surface for dispensing facilities.						
4. 229 square feet of enclosed storage capacity.						
EXISTING SUBSTANDARD:		· 4		1		
				1		

DD 1 7084, 1391

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

COMPONENT	. 2.025
	FY 1991 MILITARY CONSTRUCTION PROJECT DATA
15WY-588	Tam 39
: INSTALLATION A	ND LOCATION
	Amminition Plant, Niralnia
SECTION TIPES	S AROUTOT UNBER
Mai Storica	and Dispensing Station 19601
	The Continued
SECTECE: Co	
	40 gallons of diesel fuel storage capacity.
	40 gallons of gasoline storage capacity.
	00 square feet of paved surface for dispensing facilities.
	square feet of enclosed storage capacity.
	The new facility is needed to provide a reliable, nonpolluting
	od for storing and dispensing fuels for plant vehicles.
URRENT SITUA	TION: Diesel fuel is now stored in two 5,770 gallon tanks.  tored in three tanks (total capacity - 33,340 gallons). These
	provide adequate capacity and are in need of replacement. The
	dispensing facility is currently located in the parking lot at Motor oil, antifreeze, and other needed accessories are stored
•	
in Building 2	
	PROVIDED: Continued use of present storage facilities poses a
	ntamination hazard as well as unreliable service. If main ation is not moved, the safety problems from proximity to the
	istics Laboratory will continue to exist.
	Format B has been prepared and is included in the P-15.
ADDITIONAL.	COLUMN D HOS DOES Prepared and is included in the t-is.
12. SUPPLEME	NTAL DATA:
	mated Design Data:
	Status:
• • •	(a) Design Start Date Feb 39
,	(b) Percent Complete As Of 01 January 90 (BDGT YR) 100
	(c) Percent Complete As Of 01 October 90 (PROG YR)
	(d) Design Complete Date
	•
(2)	Basis:
	(a) Standard or Definitive Design - Yes No
	(b) Where Design Was Most Recently Used
(3)	
	(a) Production of Plans and Specifications
	(b) All Other Design Costs
	(c) Total Cost
	(d) Contract
	(e) In-house
(4)	Construction Start Apr 91
	month & year

1.COMPONENT			SATE
, 54	19 <u>91</u> MILITARY CONSTRUC	TION PROJECT DATA	
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S. THETALLATION AND LOCATION			
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<u> </u>	<u>n Paung (1271414</u>		
+ PROVICE TITLE		A GROUTER ON	327
Fiel Storage and Siste	naing Station	134.	<u> </u>
11. SUPPLEMENTAL DATA	ociased with tals proje		
cther appropriations:	Corres draw care from	·	
3913911432313		Fiscal Year	
Equipment	Procuring	Appropriated	Cost
Mcmenclature	Appropriation	Or Requested	(\$300)
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